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June 23, 1998	27	July 6, 1998*	Dec. 29, 1998	2	Jan. 8, 1999

Please note: When the Register deadline falls on a State holiday, the deadline becomes 4:30 p.m. on Monday (the day before).

Printed by authority of the State of Illinois March 1998 – 730 – GA-868

^{*} Monday

DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

Heading of the Part: Definition of Salary

- Code Citation: 50 Ill. Adm. Code 4402

2)

1)

- Proposed Action Amendment Section Numbers: 4402.10 4402.20 3)
- Statutory Authority: Implementing and authorized by Section 1A-103 of the P.A. 90-507, effective Illinois Pension Code [40 ILCS 5/1A-103] (see August 22, 1997). 4)
- A Complete Description of the Subjects and Issues Involved: These amendments will revise the main authority note and other corresponding citations pursuant to P.A. 90-507, effective August 22, 1997, which repealed the majority of Division 5 of the Illinois Pension Code and replaced it with Article 1A. 2)
- Will this proposed amendment replace an emergency rule currently in effect? No (9
- $^{\circ}$ Does this amendment contain an automatic repeal date? 7)
- No Does this proposed amendment contain incorporations by reference? 8
- Are there any other proposed amendments pending on this Part? No 6
- require a local government to establish, expand or modify its activities Statement of Statewide Policy Objectives: These amendments will not to necessitate additional expenditures from local in such a way as 10)
- Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Persons who wish to comment on this proposed rulemaking may submit written comments no later than 45 days after the publication of this Notice to: 11)

Department of Insurance 320 West Washington Springfield, IL 217-785-8220 Mary Meyer Paralegal (or) Department of Insurance Springfield, IL 62767 320 West Washington Staff Attorney Chuck Feinen 217-782-2867

- 12) Initial Regulatory Flexibility Analysis:
- small municipalities and not for profit Types of small businesses, corporations affected: None A)

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

- Reporting, bookkeeping or other procedures required for compliance: B)
- Types of professional skills necessary for compliance: None ()
- Re ulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the two most recent agendas because the Department did not anticipate the repeal of Division 5 of the Illinois Pension Code. 13)

The full text of the Proposed Amendments begins on the next page:

DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

CHAPTER I: DEPARTMENT OF INSURANCE SUBCHAPTER aaa: PENSIONS TITLE 50: INSURANCE

DEFINITION OF SALARY **PART 4402**

Accumulated Unused Time at Retirement or Disability Selary Contributions and Pension Computations for Pension Purposes Retroactive Pay Increases Non-Salary Compensation Suppose and Scope Salary 44.00.30 33 C C C

of the Illinois Pension Code [40 ILCS 5/1A-103] (see P.A. 90-507, effective August 22, 1997). Section 1A-103 þУ Implementing and authorized AUTHORITY:

Appended at 20 Ill. Reg. 5838, effective April 9, 1996; Part 6302 recodified to Part 4402 at 21 Ill. Reg. 1727; amended at 22 Ill. Reg. effective CDE: Adopted at 3 Ill. Reg. 15, p. 104, effective April 9, 1979; codified 6 Ill. Reg. 14844; amended at 13 Ill. Reg. 3801, effective March 15, 1989;

Section 4402.10 Authority

to Section 1A-103 22-501+ of the Illinois Pension Code (40 ILCS $5/\underline{1}A-103$ 222-501:1] which-empowers-the-Director ":::to-make-reasonable-rules promulgated by the Director of Insurance of the State of ond-regulations...as-may-be-neeessary-for-making-effective-and-implementing-the is Illinois pursuant This Part Rute

effective Reg. 111. 22 at (Source: Amended

Section 4402.20 Purpose and Scope

Pension Code. This-Part-shall-apply-to-all-pension, annuity-or-retirement-funds The pirpuse of this Part is to define the word "salary" as used in Section 3-125 and 4-124 of the Illinois Pension Code (40 ILCS 5/3-125 and 4-124) as it applies to pension funds formed pursuant to Articles 3 and 4 of the Illinois or-systems-under-the-authority-of-Articles-3-and-4-of-the-Illinois-Pension-Gode [40--IbeS--5/3-101-and-4-101]-which-are-not-financed-in-whole-or-in-part-by-the State-of-Illinois.

effective Reg. 111. 22 at (Source: Amended

DEPARTMENT OF INSURANCE

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NOTICE OF PROPOSED AMENDMENTS

- Electronic Filing

Heading of the Part:

7

50 Ill. Adm. Code 4405 Code Citation: 2)

3)

- Proposed Action: Amendment Amendment Section Numbers: 4405.10
- Section 1A-103 of the Illinois Pension Code [40 ILCS 5/1A-109 and 1A-103] (see P.A. 90-507. offantion and 1A-103) Implementing Section 1A-109 and authorized (see P.A. 90-507, effective August 22, 1997). Statutory Authority: 4)
- These amendments will revise the main authority note and other corresponding citations pursuant to P.A. 90-507, effective August 22, 1997, which the majority of Division 5 of the Illinois Pension Code and replaced it with Article 1A. Section 1A-109 of the Illinois Pension Code 40 ILCS 5/1A-109] now requires all pension funds to file an annual statement with the Department. These amendments will reflect that change. A Complete Description of the Subjects and Issues Involved: 2)
- Will this proposed Amendment replace an emergency rule currently in effect? No (9
- Does this amendment contain an automatic repeal date? 7
- Does this proposed amendment contain incorporations by reference? 8
- SNO Are there any other proposed amendments pending on this Part? 6
- These amendments will not require a local government to establish, expand or modify its activities a way as to necessitate additional expenditures from local Statement of Statewide Policy Objectives: such revenues. 10)
- on this proposed days after the comment rulemaking may submit written comments no later than 45 Time, Place, and Manner in which interested persons may comment Persons who wish to publication of this Notice to: proposed rulemaking: 11)

217-785-8220 Mary Meyer Paralegal (or) Department of Insurance 62767 320 West Washington Springfield, IL Staff Attorney Chuck Feinen 217-782-2867

Department of Insurance 62767 320 West Washington Springfield, IL

12) Initial Regulatory Flexibility Analysis

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

- municipalities and not for small businesses, profit corporations affected: oĘ A)
- required procedures other bookkeeping or compliance: None Reporting, B)
- Types of professional skills necessary for compliance: None ΰ
- rulemaking was not included on either of the two most recent agendas This because the Department did not anticipate the repeal of Division 5 of the on which this rulemaking was summarized: Illinois Pension Code. Agenda Regulatory 13)

The full text of the Proposed Amendments begins on the next page:

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

CHAPTER I: DEPARTMENT OF INSURANCE SUBCHAPTER aaa: PENSIONS TITLE 50: INSURANCE

ELECTRONIC FILING PART 4405

> Authority Section

Purpose and Scope 4405.10

Electronic Filing Procedure 4405.30 1405.40 AUTHORITY: Implementing Section 1A-109 and authorized by Section 1A-103 of the Illinois Pension Code [40 ILCS 5/1A-109 and 1A-103] (see P.A. 90-507, effective August 22, 1997).

at amended Adopted at 21 Ill. Reg. 1671, effective December 1, 1997; , effective 22 Ill. Reg. SOURCE:

Section 4405.10 Authority

an annual statement with the Department of Insurance. Section 18-103 22-501:1 of the Illinois Pension Code which empowers the Director to promulgate rules necessary for the administration and enforcement of the Illinois Pension Code effective--and--implementing--the--provisions--of--the-Pension-Gode--- [40 ILCS This Part is promulgated by the Director of Insurance of the State of Illinois ...make-reasonabie-ruies-and--reguiations...as--may--be--necessary--for--making Purther--authority--is--granted--through--the--Bivision-s requirement--of--accepting--annual--reports-from-all-pension-funds-(see-40-Ib6S to pursuant to implement Section 1A-109 which requires all Pension Funds 5/1A-103 22-501+1]. 5/55-503}-

effective Reg. 111. 22 at (Source: Amended

Section 4405.20 Purpose and Scope

IA-113 of the Illinois Pension Code [40 ILCS 5/IA-109 and IA-113]. The--purpose Insurance will accept the filing of annual statements from all pension funds. pursuant to this Part in order to comply with Sections 1A-109 and of--this--Part-is-to-establish-mandatory-electronic-filing-of-annual-statements The purpose of this Part is to prescribe the format in which the Department of All pension funds required to file an annual statement under Section 1A-109 of the Illinois Pension Code [40 ILCS 5/18-109] need to file their annual to-the-Pension-Bivision-of-the-Ellinois-Bepartment-of-Insurancestatement

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NOTICE OF PROPOSED AMENDMENTS

DEPARTMENT OF INSURANCE

This-Part-shall-apply-to-all-pensions,-annuity-or-retirement-funds-or--systems, which-are-not-financed-in-whole-or-part-by-the-State-of-Illinois-

effective Reg. 111. 22 at (Source: Amended

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

Heading of the Part: Examination and Audit Procedure

1

3

50 Ill. Adm. Code 4401 Code Citation: 5)

Proposed Action:	Amendment	New Section	Amendment	Amendment	Amendment	Amendment	Repeal
Section Numbers:	4401.20	4401.25	4401.30	4401.40	4401.50	4401.60	4401.70

- þλ Section 1A-103 of the Illinois Pension Code [40 ILCS 5/1A-103 and 1A-104] and authorized Section 1A-104 (see P.A. 90-507, effective August 22, 1997). Implementing Statutory Authority: 4)
- A Complete Description of the Subjects and Issues Involved: These amendments will revise the main authority note and other corresponding citations pursuant to P.A. 90-507, effective August 22, 1997, which repealed the majority of Division 5 of the Illinois Pension Code and provisions by adding definitions and a provision that allows the Department to accept a report of audit or exam of a pension fund from a replaced it with Article 1A. These amendments will also clarify existing certified public accountant. 2)
- Will this proposed amendment replace an emergency rule currently effect? No (9
- 8 Does this amendment contain an automatic repeal date? 7
- 8 Does this proposed amendment contain incorporations by reference? 8
- Are there any other proposed amendments pending on this Part? 1
- Statement of Statewide Policy Objectives: These amendments will not require a local government to establish, expand or modify its activities in such a way as to necessitate additional expenditures from local revenues. 10)
- Time, Place, and Manner in which interested persons may comment on this proposed proposed rulemaking: Persons who wish to comment on this proposed days after the rulemaking may submit written comments no later than 45 publication of this Notice to: 11)

Department of Insurance Paralegal Department of Insurance Staff Attorney Chuck Feinen

DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

320 West Washington	Springfield, IL 62767	217-785-8220
(or)		
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ashing	II	
3	eld,	-2867
West	pringfield	-782-
320 1	Sprir	217-7
	-	• •

12) Initial Regulatory Flexibility Analysis:

- A) Types of small businesses, small municipalities and not for profit corporations affected: None
- B) Reporting, bookkeeping or other procedures required for compliance: None
- C) Types of professional skills necessary for compliance: None
- 13) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the two most recent agendas because: The Department did not anticipate the repeal of Division 5 of the Illinois Pension Code.

The full text of the Proposed Amendments begins on the next page:

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

TITLE 50: INSURANCE CHAPTER I: DEPARTMENT OF INSURANCE SUBCHAPTER aaa: PENSIONS

PART 4401 EXAMINATION AND AUDIT PROCEDURE

> Section 4401.10 Purpose

4401.10 Furpose 4401.20 Applicability 4401.25 <u>Definitions</u> 4401.30 Pre-Audit and Examination Procedures

4401.30 Fre-Audit and Examination Frocedi 4401.40 Audit and Examination

4401.50 Post-Audit and Examination Procedures 4401.60 Audit and Examination Hearings

4401.50 Audit and Examination mean 4401.70 Compliance (Repealed)

AUTHORITY: Implementing Section 1A-104 and authorized by Section 1A-103 of the Illinois Pension Code [40 ILCS 1A-103 and 1A-104] (see P.A. 90-507, effective August 22, 1997).

SOURCE: Adopted at 21 Ill. Reg. 1675, effective January 28, 1997; amended at 22 Ill. Reg.

Section 4401.20 Applicability

This Part shall apply to all rension funds established Article—Three—and—4 pension;—annuity—or-retirement—funds—or-systems under the regulatory-authority of-the-Department—of-insurance;—which—are—not-financed—in-whole—or-in-part—by funds—of-the—State—of-Thiinois; pursuant to—Section—22-501-of-the Illinois Pension Code and maintained for the benefit of employees and officers of governmental units in the State of Illinois [40 ILCS 5/IA-104] [40-theS 5/22-501+].

(Source: Amended at 22 Ill. Reg. , effective

Section 4401.25 Definitions

Accountant means an independent certified public accountant or independent accounting firm in good standing with the American Institute of CPA's and all states in which the accountant is licensed to practice.

Department means the Department of Insurance of the State of Illinois [40 ILCS 5/1A-102] (see P.A. 90-507, effective August 22, 1997).

Division means the Public Pension Division of the Department of

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

nsurance	[40	ILCS	5/1A-102]	(see P.A.	90-507,	effective	August 22,
. (266							

(Source: Added at 22 Ill. Reg. _____, effective

Section 4401.30 Pre-Audit and Examination Procedures

- a) Pursuant to Section 1A-104 22-502 of the Illinois Pension Code [40 ILCS 5/1A-10422-502], each pension fund or retirement system under the Illinois Pension Code shall be subject to periodic examinations or audits on behalf of the Illinois Department of Insurance.
- b) Notification of an impending examination or audit will be given through the issuance of a "Warrant of Examiners." This Warrant of Examiners shall state the name of the pension fund or retirement system which will be examined, and will identify the examiner appointed to perform the examination or audit.
- c) The Warrant of Examiners may also be accompanied by a letter, which shall set a tentative date for a review of the books and other documentation, as well as a request for materials which are to be sent by the pension fund or retirement system to the attention of the examiner within 14 days after receipt of said letter. In preparing for the examination or audit, the <u>Division's Bepartment-of-Insurance</u> examiner shall have access to all books, records, files, documents and other relevant materials deemed necessary by the <u>Division</u> Bepartment of-Insurance to assist in the completion of such examination or audit.
- documents shall be sent to the examiner listed in the warrant at least Thereafter, requests for extension shall only be granted for good report of audit or examination does not bar the Division from making a One extension of Pursuant to Section 1A-104 of the Illinois Pension Code [40 ILCS Division shall notify the pension fund in writing of its intention to conduct or cancel the impending examination. The acceptance of the time shall be granted automatically for a period of up to 30 days. 5/1A-104], the Division may accept and rely upon a report of audit or lieu of making an examination and investigation. Upon receipt of notification of the impending examination pursuant to Section 4401.30 of this Part, a pension fund examination consideration in lieu of conducting the examination. The made by in providing the or retirement system may file with the Division a certified public accountant seven business days before the scheduled deadline. All requests for an extension of time examination of any pension fund certified public accountant in cause. q) a

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further audit, examination, and investigation if deemed necessary by

the Division [40 ILCS 5/1A-104].

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NOTICE OF PROPOSED AMENDMENTS

Section 4401.40 Audit and Examination

- All audits and examinations, except under special circumstances (such need to expeditiously focus on a single issue, that has been brought to the attention of the Division Bepartment, or an examination excessive in comparison to the time spent and information actually and other relevant procedures can be made readily available to the During the audit or examination, the examiner may look at of a small fund, where the cost and time used to travel to the site is obtained), shall be made on site, to insure that all books, documents all aspects of the pension fund's or retirement system's business. This includes verification of the existence of administrative rules, policies and procedures, verification of the participants in the fund and all information related to the participants, business affairs and expenditures of the pension board, including pension payments and investment holdings and procedures, the appointment and election of trustees, as well as any other relevant issues or procedures. examiner. a)
- b) Desk audits will be performed for each fund, following the timely submission of the annual statement filing. In addition, desk audits may be performed at any time on a pension fund.
- c) Situations may arise which require the Division Bepartment to perform special examinations. These examinations are limited by the Division to specific areas of concern by-the-Department. The authority of the examiner when conducting a special examination shall be the same authority which is granted to the examiner in the performance of a general or full examination or audit.
- d) The majority of the audits and examinations will be performed directly by members of the <u>Division Bepartment-of-Insurance-Pension-Bivision-9 staff</u>. However, in the event that an outside auditor or examiner is hired, such person shall be given all the rights and powers held by an employee of the <u>Division Bepartment-of-Insurance</u>.

(Source: Amended at 22 Ill. Reg. effective

Section 4401.50 Post-Audit and Examination Procedures

- a) Following an examination or audit, the examiner may request further information be provided by the pension fund or retirement system. Such information shall be provided within two weeks or within the time frame agreed to by the pension fund or retirement system and the Division Bepartment--of-Insurance. At any time, the Pension Division may refer investigatory information to the Illinois Attorney General's Office.
 - Once all relevant information has been received and reviewed, the examiner will prepare a written report detailing the status of the pension fund's or retirement system's compliance with the policies, procedures and laws applicable to it. This report shall be known as

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DEPARTMENT OF INSURANCE

NOTICE OF PROPOSED AMENDMENTS

the report of examination. A copy of the report of examination will report to review it and make any request for a hearing based on the the secretary of the pension fund or retirement system. oĘ of receipt The fund will then have 30 days after the date facts contained in the examination report. to

After 30 days, if no hearing is requested, the examination report time an order shall be entered by the Director of Insurance which with the findings of the examination report as detailed in the order or within 15 business days, whichever period is shorter. with the Department of-Insurance and the fund or retirement system has violated the policies, procedures and laws of the State of Illinois. In response, action must be taken to requires compliance where it is determined that the pension contents shall thereafter be considered public information. shall be officially filed ô

effective Reg. 111. 22 ъţ (Source: Amended

Section 4401.60 Audit and Examination Hearings

- Hearings requested pursuant to this Part are limited to the accuracy of the facts contained in the report of examination. a)
- All requests for a hearing shall be made in writing and delivered to Division of the Illinois Department of Insurance. Such Such requests shall identify the specific findings that are in pension fund or retirement system received the report of examination. request shall be received within 30 days after the day that the Pension (q
- Once a timely request is received by the Division Bepartment, the be scheduled to be held no sooner than 20 days, but no later than 30 days, after receipt of the request, and will be held in the offices of Division Bepartment will issue a notice of hearing. All hearings will the Department of-Insurance. 0

dispute.

- conducted in accordance with Illinois Administrative Hearing Procedures as outlined in 50 Ill. Adm. Code pe will hearings q)
- Adm. Code 4435, Noncompliance Notification and Penalties, will be If the Director's decision finds compliance, the audit and examination report will be rewritten in accordance with the Director's The Director will issue a written order following the hearing. If the Director's decision finds noncompliance, the procedures of 50 Ill. followed. ()

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Section 4401.70 Compliance (Repealed)

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NOTICE OF PROPOSED AMENDMENTS

- The--findings--of--the--Director-of-Insurance-will-be-made-public-in-a w±±tten-order-following--the--hearing----The--findings--w±l--indieate whether--or--not--an--order--of-compiance-is-nccessary---The-order-of eompitance-may-be-made-part-of--the--Director-s--final--order--in--the hearing....-Compitance--with--this--order-shall-be-performed-within-the time-frame-specified-in-the-orderi-however-the-time-frame-should--not exceed-15-business-days-following-the-entrance-of-the-ordera+
 - The--Birector--of--Insurance--may---at--his/her--discretion;--dive written-notiee-to-the-governing-body--offieer-or-official-of--the pension--fund--or-retirement-system-of-specific-matters-or-issues wherein-non-compliance-is-alleged:
- #f-the-Director-of--Insurance--does--not--receive--evidence--that compliance-has-been-achieved-within-the-15-days-following-receipt of-the-notice--then-an-order-to-show-eause-shall-be-issued-to-the 44
- The--Order--to--Show--Eause--shall--be-accompanied-by-a-Notice-of Hearing,-setting-forth-a-hearing-date,---The-Director-of-Insuranee shall-issue-an--order--of--his/her--findings----If--noneomplianee eontinues---orders--may--be--issued--and--fines--may--be-assessed doverning-body--officer-or-official: pursuant-to-40-IbeS-5/22-503-34
- Compliance-and--evidenee--thereof--should--be--delivered--to--the Director--of--Insurance--within-30-days-after-the-cutrance-of-the ordery-unless-the-pension-fund-or-retirement-system-has-initiated an-action-for-administrative-reviews 44
- ### Example of the second o deadline--for--complianeer--then--the--governing-bodyr-officer-or official-should-send-a-eertified-statement--to--the--Direetor--of Insurance--which--sets-forth-the-steps-to-be-taken-to-insure-full 54
 - If-no-aetion-is-taken-to-eomply--with--the--Director-s--Order--and--no action--for--administrative--review--is--timely--initiatedy--then--the Director-of-Insurance-may-assess-a-civil-penalty-against-the-governing civil--penalty--may--also--be-assessed-pursuant-to-40-IbES-5/22-509-if full-compliance-with-the-Director-s-Order-is-not--achieved--as--stated within--the--time--frame--specified--in-the-eertified-statement-of-the governing-body,-officer-or-official,--This-fine-shall-be-550-for--each day--in-whieh-the-entity-eontinues-to-be-out-of-eompliancer-beyond-the 30-day-time-period-allowed---In-no-event--shall--the--amount--of--such body,-officer-or-official-of-the-pension-fund-or-retirement-system;eompliance-and-the-expected-day-of-full-compliance: civil-penalty-exeeed-Siy000-per-compliance-issue; 10
- <u>All--fines--not--paid--within-30-days-after-the-assessment-mayr-at-the</u> Director-of-Insurance-1s-discretion,-be-turned--over--to--the--Ilitinois <u>Attorney-General-with-a-request-for-judicial-action-for-compisance-and</u> satisfactions +0

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Repealed	
(Source:	

NOTICE OF PROPOSED REPEALER

- Heading of the Part: Audiometry Certification, Recertification and Calibration Standards
- 2) Code Citation: 77 Ill. Adm. Code 681
- Proposed Action: Repealer Section Numbers: 681.110 681,120 681,130 681,140 681,150 681.160 581.170 681.10 681.20 681.30 3)
- 4) Statutory Authority: Authorized by and implementing the Child Vision and Hearing Test Act [410 ILCS 205].
- A Complete Description of the Subjects and Issues Involved: The Department is consolidating into one Part three sets of rules concerning hearing screening for pre-school and school age children, training requirements for hearing screening technicians and audiometer calibration standards. This consolidation will simplify the rules, eliminate redundancies, and update the rules to current standards of practice. This rulemaking repeals obsolete training and examination provisions for certification to use an audiometer and audiometer calibration standards. The other two rulemakings that are involved in the consolidation are published in this issue of the Illinois Register.
- 6) Will this Rulemaking Replace an Emergency Rule Currently in Effect? No
- 7) Does this Rulemaking Contain an Automatic Repeal Date? No
- 8) Does this Rulemaking Contain Any Incorporations By Reference? No
- 9) Are there any other Proposed Amendments Pending on this Part? No
- 10) Statement of Statewide Policy Objectives: This rulemaking does not create or expand a State Mandate.
- 11) Time, Place, and Manner in which Interested Persons May Comment on this Rulemaking: Interested persons may present their comments concerning these rules by writing within 45 days after this issue of the Illinois Register to:

Ms. Gail M. DeVito

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

Division of Legal Services
Illinois Department of Public Health
535 West Jefferson, Rifth Floor
Springfield, IL 62761
E-mail: rules@idph.state.il.us

12) Initial Regulatory Flexibility Analysis:

- A) Type of Small Businesses, Small Municipalities and Not-for-Profit Corporations Affected: None
- B) Reporting, Bookkeeping or Other Procedures Reguired for Compliance: None
- C) Types of Professional Skills Necessary for Compliance: None
- 13) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the 2 most recent regulatory agendas because: The decision to propose this rulemaking had not been made when the Regulatory Agenda was finalized.

The full text of the Proposed Repealer begins on the next page:

NOTICE OF PROPOSED REPEALER

TITLE 77: PUBLIC HEALTH
CHAPTER I: DEPARTMENT OF PUBLIC HEALTH
SUBCHAPTER j: VISION AND HEARING

PART 681
AUDIOMETRY CERTIFICATION, RECERTIFICATION AND CALIBRATION STANDARDS (Repealed)

SUBPART A: STANDARDS FOR AUDIOMETRY CERTIFICATION AND RECERTIFICATION

Section
681.10 Introduction
681.20 Standards for Audiometry Certification
681.30 Standards for Audiometry Recertification

SUBPART B: AUDIOMETER CALIBRATION STANDARDS

Section
681.110 Introduction
681.120 Definitions
681.130 Periodicity of Calibration Checks
681.140 Method for Delivery of Calibration Check Services
681.150 Addiometer Calibration Measurements
681.160 Criteria for Addiometer Acceptability
681.170 Record of Calibration Check

AUTHORITY: Implementing and authorized by the Child Vision and Hearing Test Act [410 ILCS 205].

SOURCE: Adopted July 1, 1976; codified at 8 Ill. Reg. 16830; repealed at 22 Ill. Reg.

SUBPART A: STANDARDS FOR AUDIOMETRY CERTIFICATION AND RECERTIFICATION

Section 681.10 Introduction

Hence, the Department provides several workshops per year in various locations throughout the State to enable trainees to obtain establishing, coordinating and maintaining hearing screening programs which mandates all aspects of a comprehensive hearing conservation One section includes the utilization of uniform criteria through individuals trained for that specific purpose by the Illinois in a hearing screening program must have successfully passed an audiometric The Illinois Department of Public Health is the responsible agency for throughout the State. Due in part to the philosophy of the hearing conservation staff of the Department, legislation has been enacted In addition, procedures for Department of Public Health. All individuals involved a valid certificate in audiometry. workshop. program. a)

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recertification of an individual have been established, due to the belief that it is necessary to periodically reexamine and evaluate the effectiveness of our training program and the competency of the certified personnel.

b) The following standards define the certification and recertification procedures for obtaining and maintaining an Audiometry Certificate.

Section 681.20 Standards for Audiometry Certification

To obtain a valid certificate in audiometry as defined by the Illinois Department of Public Health, certification is contingent on the following:

- a) full attendance at all three portions (lecture, practicum, and follow-up) is mandatory. There will be no excused absences due to the sequence and continuity of the materials covered.
- b) successful completion of a written examination at the conclusion of the lecture series. A score of 75% or greater must be obtained, or the trainee will be required to attend an additional lecture series prior to attendance at a practicum and follow-up workshop.
- c) demonstration of proficiency at an audiometry practicum. This phase includes: The ability to instruct and test children; the ability to recognize screening failures and referrals; and the ability to successfully organize and maintain a hearing screening program. Failure to successfully demonstrate proficiency at the practicum portion of the workshop will result in the trainee being categorized into one of the following groups:
- "pass with further supervision" this category will allow the trainee to attend the follow-up workshop and pass the course after demonstration of proficiency through an additional supervisory visit(s) by the Regional Hearing Consultant;
 - category indicates the trainee did not meet expectations and will not be certified to perform audiometric testing. In the event the trainee or the completion of the course, or disagrees with the decision, a meeting will be held to review the situation and to make a final the Regional Hearing Consultant, and the trainee's supervisor. A workshop (the same as the first) in that the of the trainee fails to recognize the unsuccessful this meeting: The Hearing Conservation Coordinator, the Training Supervisor, trainee who fails the course will be invited to attend Department will provide every opportunity for a trainee decision. The following individuals will attend "failure to demonstrate proficiency" - this successfully complete the requirements. supervisor 2)

Section 681.30 Standards for Audiometry Recertification

a) In accordance with the rules of the Child Vision and Hearing Test Act, a certificate in Audiometry is valid for a period of three years. Hence, attendance at a recertification workshop every three years is

NOTICE OF PROPOSED REPEALER

- mandatory for an audiometrist to maintain a valid certificate.
 b) The following regulations clarify the standards for maintaining a valid certificate:
- recertification workshop and has a valid excuse, a grace period recertification workshop every three years to receive a renewal certificate valid for that period of time. Failure to do so will The workshop will practical demonstration of proficiency. a certified to attend a regularly scheduled audiometrist does not complete a workshop within this 12 month period of time, the certificate will expire and will no longer be complete be extended to the audiometrist. in the event successfully result in expiration of the certificate. An audiometrist must attend and The only exception is as follows: audiometrist is unable include a written and of 12 months shall considered valid.
- 2) A questionnaire will be sent each year to those audiometrists whose certificates expire during that year. In the event an audiometrist does not wish to maintain certification status, he or she may so indicate on the questionnaire and they will be removed from the files.
- 3) An audiometry certificate will be removed by the Department if the audiometrist fails to comply to the rules of the Child Vision and Hearing Test Act, or if they fail to demonstrate proficiency in the area of audiometry. The removal of a certificate will be handled in the same manner as under Section 681.20 (c)(2) of this Part.
- 4) In the event a certificate is removed or expires without valid reason, a person must complete all portions of the training course to be reinstated as a certified audiometric technician.
 - Ourse to be reinstated as a certified audiometric technician.

 5) The procedure for changing a person's mane, removing a deceased person's name from the mailing, or any other changes on the certificate, shall be initiated by the regional consultant contacting the central office and forwarding the appropriate information to them. The Training Course Supervisor shall be responsible for notifying Data Processing of the necessary

SUBPART B: AUDIOMETER CALIBRATION STANDARDS

Section 681.110 Introduction

In accordance with the rules of the Child Vision and Hearing Test Act, the Illinois Department of Public Health Hearing Conservation Program will administer a program of audiometer calibration standards. All portable audiometers used in screening programs for children in Illinois are covered by these standards. The Illinois Department of Public Health is the responsible agency for establishing these standards and for administering the necessary programs to insure compliance.

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Section 681.120 Definitions

ANSI - American National Standards Institute

Audiometer - Any portable pure tone audiometer used in a mass screening program or as part of the monitoring follow-up testing or by speech clinicians as part of a pre-school or school hearing testing program.

Calibration Check - Activities related to the electroacoustic measurement of the audiometer in evaluation of its function.

Correction Card - A numerical correction factor which is attached to the audiometer indicating the output error and the required correction values.

Factory Calibration - The process of changing the audiometer output by means of internal repairs. This process is accomplished by the audiometer manufacturer or an established repair laboratory.*

AGENCY NOTE: *In some cases, the Regional Hearing Consultant will provide necessary minor repairs.

Frequency Count - The measurement of the frequency output for each frequency in each earphone measured in Hertz or cycles per second.

:SO - International Standards Organization.

Linearity Check - The measurement of attentuator linearity.

Sound Pressure Level (SPL) - A direct physical measurement of intensity in decibels.

Section 681.130 Periodicity of Calibration Checks

All audiometers used in screening programs will be tested with an electroacoustic coupler and sound level meter twice during each calendar year, preferably at six-month intervals near the beginning of their use in a mass screening program and at the mid-point of such a program.

Section 681.140 Method for Delivery of Calibration Check Services

The Illinois Department of Public Health will administer a program of calibration check services through the regional offices. The regional staff will disseminate notification to all screening programs regarding the locations and dates for these services. Check clinics will be strategically located so as to reduce required travel time for local programs. The local programs will be required to transport the audiometers to and from these check sites.

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Section 681.150 Audiometer Calibration Measurements

Each audiometer checked will undergo the following measurements:

- octave The ANSI calibrated instruments. The acceptable range of deviation will follow reference for pure tone audiometers will be used for both ISO and ANSI Sound Pressure - Sound pressure will be measured for each - 250 Hz through 8000 Hz - for each earphone. the ANSI Standards.
- The ANSI standards for acceptable frequency Frequency Count - Each octave frequency - 250 Hz through 8000 deviations will be used. will be measured. (q
 - earphone at 2000 Hz. Linearity deviations will be measured in 10dB increments from 110 dB to the minimum achievable level in relationship Linearity Check - The attenuator linearity will be measured for one to ambient noise. ΰ
- and frequency controls, a check of the earphones, cushions, cords, and Subjective Checks - Several subjective checks of the audiometer These checks include: check for extraneous noise in the attenuator made following each output check. a check of the condition of the headband. condition and function will be q)

Section 681.160 Criteria for Audiometer Acceptability

- The following conditions found in an audiometer will necessitate factory calibration and/or repairs. a)
- 1) When the sound pressure in any one or more frequencies, in either earphone, deviates by more than 10dB from the reference point.
- Any sound pressure level deviation from the acceptable ANSI range in the frequencies 500, 1000, 2000, and 4000 Hz in either earphone. 2)
- A frequency count which deviates from the acceptable ANSI at any frequency. 3)
 - A lack of acceptable attenuator linearity. 4)
- Noise in the attenuator or frequency selector which might interfere with test presentations. 5)
- broken earphone "Scratching sounds" or "cut-outs" caused by (9

(q

In the following condition, an audiometer can continue to be used in a In this case, a correction card is attached to the audiometer and the indicated correction factor is applied when the unit is used. frequencies of 250 Hz and/or 8000 Hz only, in either earphone. When a deviation of no greater than 10dB exists, screening program if a correction card is used:

Section 681.170 Record of Calibration Check

The results of each audiometer checked by the Department will the results will Jo recorded in a regional office, and a copy a)

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placed within the audiometer. This form is designated as the "audiometer calibration check worksheet" and is intended to instruct the owner regarding the appropriate action following the check. Each calibration worksheet should be maintained with the worksheet must accompany the audiometer to the repair facility to indicate the audiometer and when factory calibration is indicated, instrument malfunction.

will be affixed to all units checked. If no deviation exist, the card will indicate that the instrument is "ok", and will be signed by the A calibration correction card, with the date of calibration checks, Public Health Consultant who performed the check service. p)

NOTICE OF PROPOSED AMENDMENTS

Heading of the Part: Grade A Pasteurized Milk and Milk Products

7

- Code Citation: 77 Ill. Adm. Code 775 5)
- Proposed Action: Amendments Section Numbers: 3
- Ø Grade the ρλ Implementing and authorized Pasteurized Milk and Milk Products Act [410 ILCS 635]. Statutory Authority: 4
- A Complete Description of the Subjects and Issues Involved: 2

This rulemaking will update references to several documents that are incorporated by reference in the Grade A Pasteurized Milk and Milk Products rules. Documents that are being updated include the Grade ${\rm A}$ Pasteurized Milk Ordinance (PMO) and the Grade A Condensed and Dry Milk Ordinance (DMO), both published by the FDA, and the Standard Methods for the Examination of Dairy Products, published by the American Public Health Key changes to the 1995 edition of the PMO include two new appendices that recommendations regarding vitamin fortification of Grade A dairy products and performance-based farm provide additional information and inspections as follows:

information on fortification of dairy products with Vitamins A and D, which has long been a standard practice in the dairy industry. The Appendix specifies recommendations for methods of vitamin addition, the use and evaluation of metering pumps, and the methods of testing for levels of vitamin fortification. Appendix O - "Vitamin Fortification of Fluid Dairy Products" provides background

an alternative inspection system to the traditional routine inspection inspection frequency is based on producer milk quality and inspection Appendix P - "Performance-Based Dairy Farm Inspection System" provides frequency of Grade A dairy farms. In the alternative system the performance. In addition, the 1995 revision reorders inspection items for Grade A dairy sanitation requirements have not changed, the numbering system has been adjusted to reflect the new emphasis. The DMO has been rewritten and updated, in the 1995 revision, to mirror the Grade A PMO, which it Pasteurization requirements have been updated and appendixes Although the farms to put more emphasis on direct public health issues. from the PMO have been reprinted in the DMO to supplements. uniformity.

the Standard Methods for the oę the 16th edition Modifications in

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NOTICE OF PROPOSED AMENDMENTS

pace with Changes of major impact include the approval to keep of additional screening tests for drug residue testing. document the update Examination of Dairy Products rapidly changing technology.

- 8 Will this Rulemaking Replace an Emergency Rule Currently in Effect? (9
- 0 N Does this Rulemaking Contain an Automatic Repeal Date? 7
- N_O Does this Rulemaking Contain Any Incorporations By Reference? 8
- $^{\circ}$ Are there any other Proposed Amendments Pending on this Part? 6
- Statement of Statewide Policy Objectives: This rulemaking does not create or expand a State Mandate. 10)
- Rulemaking: Interested persons may present their comments concerning by writing within 45 days after this issues of the Illinois Time, Place, and Manner in which Interested Persons May Comment on this these rules 11)

Illinois Department of Public Health 535 West Jefferson, Fifth Floor E-mail: rules@idph.state.il.us Ms. Gail M. DeVito Division of Legal Services Springfield, IL 62761 (217) 782-2043

- Initial Regulatory Flexibility Analysis: 12)
- Type of Small Businesses, Small Municipalities and Not-for profit None Corporations Affected: A)
- Reporting, Bookkeeping or Other Procedures Required for Compliance: B)
- Types of Professional Skills Necessary for Compliance: None ô
- This either of the most 2 recent Regulatory Agendas because: The need for the rulemaking was not apparent when the Regulatory Agenda on which this rulemaking was summarized: rulemaking was not included on Regulatory Agenda was finalized. 13)

The full text of the Proposed Amendments begins on the next page:

NOTICE OF PROPOSED AMENDMENTS

CHAPTER I: DEPARTMENT OF PUBLIC HEALTH SUBCHAPTER m: FOOD, DRUGS AND COSMETICS TITLE 77: PUBLIC HEALTH

PART 775

SRADE A PASTEURIZED MILK AND MILK PRODUCTS

Local Government Implementation Minimum Regulations(Renumbered) Incorporated Materials Minimum Requirements Definitions 775.10 775.20 775.30 775.40 775.1

Section

Suspension of Permits Permits

Inspections and Investigations 775.50 775.60 775.70

Approval of Construction Plans Administrative Hearings 775.80

775.90

Cleaning and Sanitizing Procedures Milk Haulers Examination Milk Tank Trucks 775.100 775.110 775.120

Pesticide, Herbicide and Mycotoxin Residue Control Program Action levels for Added Water in Milk 775.130 775.140

Drug Residue Control Program 775.150

by the Grade A Pasteurized Milk and AUTHORITY: Implementing and authorized

Adopted and codified at 8 Ill. Reg. 4190, effective March 16, 1984; at 11 Ill. Reg. 1464, effective February 1, 1987; amended at 12 Ill. Reg. 17925, effective December 1, 1988; amended at 17 Ill. Reg. 14015, effective August 15, 1993; amended at 19 Ill. Reg. 12271, effective August 10, Milk Products Act [410 ILCS 635]. amended

, effective

Section 775.20 Incorporated Materials

1995; amended at 22 Ill. Reg.

- The Grade A Pasteurized Milk Ordinance (PMO), Part II and Appendixes A through P N---as-amended-in-1991 (except Sections Section 16 and 17) (1995) (1999) Recommendations of the United States Public Health Service/Food and Drug Administration (Publication 229)). In addition, the jurisdiction name, left blank in Sections 1, 2 and 11 of the PMO, for the purposes of this Part, shall mean the State of Illinois; and the regulatory in Section 17 shall mean the Illinois The following materials are incorporated or referenced in this Part: agency referred to a)
- The Grade A Condensed and Dry Milk Ordinance, 1995 Revision, Part II and Appendixes A through N (The Grade A Condensed and Dry Milk Department of Public Health. See Section 775.30(a). 2)

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NOTICE OF PROPOSED AMENDMENTS

Products and Condensed and Dry Whey _ Supplement I to the Grade A Pasteurized Milk Ordinance, 1995 Recommendations). Part-#I-and Sondensed-and-Dry-Milk-Products-and-Condensed-and-Dry--Milk--Whey Appendixes-A-through-J-(1970-Recommended-Sanitation-Ordinance-for Used---in--Grade--A--Pasteurized--Milk--Products}-

1015 - 18th Street, N.W., Washington, D.C. 20036.). See Section The Standard Methods for the Examination of Dairy Products (16th 15th Edition, 1992 1985, American Public Health Association, 3)

775.70(b).

Official Methods of Analysis of the Association of Official Official Station, Chemists, P.O. Box 540, Ben Franklin Analytical Chemists (15th Edition, 1990, Association of Analytical 4)

Washington, D.C. 20044-). See Section 775.70(b). 21 CFR 131.110- (1991). (See Section 775.10 $_{\rm L}$ the definition of "Milkfat and Nonfat Solid Content Standards.")-5)

Code - 77 Ill. Adm. Code 890, Illinois Plumbing (9

ρλ Full-time Local Health Departments - 77 Ill. Adm. Code 600.700 to 600.740, Illinois Department of Public Health. (See Section Minimum Qualifications for Public Health Personnel Employed Department of Public Health. (See Section 775.30(c)(4).). 775.7407.1 7)

Rules of Practice and Procedure in Administrative Hearings - 77 Ill. Adm. Code 100, Illinois Department of Public Health. (See Section 775.90).) 8

definition 21 CFR 556 (1991). (See Section 775.10, the "Violative Drug Residue"7.) 6

of

The Veterinary Medicine and Surgery Practice Act of 1983 (###+ Rev:-Stat:-19917-ch:-1117-pars:-7001-et-seq:) [225 ILCS 115]_ 10)

specified and do not include any additions or deletions subsequent to All incorporations by reference refer to the materials on the the date specified. (q

concern the specified regulation in the 1991 Code of Federal Regulations, unless this Part regulations in citations to federal another date is specified. 0

Copies of all incorporated materials are available for inspection and Food, Drugs, and Dairies, 525 West Jefferson Street, Springfield, copying by the public at the Department's Central Office, Division q)

effective Reg. 111. 22 at (Source: Amended

NOTICE OF PROPOSED AMENDMENTS

- Heading of the Part: Hearing Screening

7

- Code Citation: 77 Ill. Adm. Code 675 5)
- Proposed Action: Amendment Section Numbers 3)
 - New Section New Section Section Section Section New Section New Section Amendment Amendment Amendment Amendment Amendment Amendment New New New 675.140 675.200 675.100 675.110 675.120 675.210 675.220 675.230 675.240 675.250 675.10 675.20 675.30
- Statutory Authority: Authorized by and implementing the Child Vision and Hearing Test Act [410 ILCS 205]. 4)

675.300

- Department is consolidating into one Part three sets of rules concerning requirements for hearing screening technicians and audiometry calibration will simplify the rules, eliminate rulemaking sets fees for training courses, certification, replacement certificate, and audiometer calibration check. The other two Parts that hearing screening for pre-school and school age children, training redundancies, and update the rules to current standards of practice. This are involved in the consolidation are proposed for repeal in this issue of A Complete Description of the Subjects and Issues Involved: consolidation the Illinois Register. This standards. 2)
- N_O Will this Rulemaking Replace an Emergency Rule Currently in Effect? (9
- Does this Rulemaking Contain an Automatic Repeal Date? 7
- No Does this Rulemaking Contain Any Incorporations By Reference? 8)
- N_o Are there any other Proposed Amendments Pending on this Part? 6

Statement of Statewide Policy Objectives: This rulemaking does not create

or expand a State Mandate.

10)

Time, Place, and Manner in which Interested Persons May Comment on this <u>Rulemaking:</u> Interested persons may present their comments concerning these rules by writing within 45 days after this issue of the Illinois 11)

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

Register to:

Illinois Department of Public Health 535 West Jefferson, Fifth Floor E-mail: rules@idph.state.il.us Division of Legal Services Springfield, IL 62761 Ms. Gail M. DeVito (217) 782-2043

Initial Regulatory Flexibility Analysis: 12)

- Type of Small Businesses, Small Municipalities and Not-for-Profit Corporations Affected: None A)
- Reporting, Bookkeeping or Other Procedures Required for Compliance: B)
- None Types of Professional Skills Necessary for Compliance: ()
- This most recent Regulatory The decision to propose this rulemaking had not been on which this rulemaking was summarized: made when the Regulatory Agenda was finalized. rulemaking was not included on either of Rejulatory Agenda Agendas because: 13)

The full text of the Proposed Amendments begins on the next page:

NOTICE OF PROPOSED AMENDMENTS

CHAPTER I: DEPARTMENT OF PUBLIC HEALTH SUBCHAPTER j: VISION AND HEARING TITLE 77: PUBLIC HEALTH

HEARING SCREENING PART 675

SUBPART A: AUTHORITY-APPLICABILITY AND GENERAL PROVISIONS

DEFENTATIONS

Incorporated Materials Applicability Definitions Section 675.10 675.20

STANDARDS AND, PROCEDURES, - TECHNIQUES AND-ERITERIA FOR HEARING SCREENING SUBPART B:

Identification Audiometry Frequency of Screening Referral Criteria Instrumentation Referral 675.130 675.110 675.100 675.120 Section

GENERAL STANDARDS FOR-TRAFNENG AND QUALIFICATIONS OF POR PERSONNEL PROVIDING TO-PROVEDE HEARING SCREENING SERVICES SUBPART C:

Recertification of Hearing Screening Technicians Certification of Hearing Screening Technicians Application for Training and Certification Training for Hearing Screening Technicians Screening Personnel Lapsed Certificates 675.240 675.200 675.210 675.230 Section 675.220

SUBPART D: FEE STRUCTURE

675.300 Section

Test Hearing and AUTHORITY: Authorized by and implementing the Child Vision Act [410 ILCS 205]. Adopted and codified at 6 Ill. Reg. 10998, effective August 30, 1982; , effective amended at 22 Ill. Reg. SOURCE:

AUTHORITY, APPLICABILITY AND GENERAL PROVISIONS SUBPART A:

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NOTICE OF PROPOSED AMENDMENTS

BEFINITIONS

Section 675.10 Applicability

- children. The Act requires hearing screening services be administered hearing screening services for Illinois applies These-rules-apply to hearing screening services required under The Child Vision and Hearing Test Act authorizes the Department to all children by certified hearing screening technicians. administer a program of the that Act.
 - community hearing shall make such delegations in conformance with existing services and with the approval of the entity The Department shall delegate responsibility to other State agencies, maintain periodic vision and local health departments, school districts, or other The Department agencies, to develop and receiving the delegation. screening services. (q

effective Reg. 111. 22 at Source: Amended

Section 675.20 Definitions

As used in this Part these-rules, the terms defined in this Section section shall have the meanings ascribed to them herein.

"Act" means the Child Vision and Hearing Test Act [410 ILCS 205].

"Department" means the Illinois Department of Public Health

lacement; classroom functionin; level; achievement scores; teacher's 'Educational screening" means a review of the student's current grade rating of classroom performance regarding attention and concentration, language and written language language erformance, ability to hear in the classroom, and speech development. skills; and teacher's description of oral and written reading, arithmetic, spelling, oral

community Community education regarding the identification, prevention, cause, program planning, "Hearing screening services" means on-going programs of: audiometry, and referral, and follow-up Referral procedures. identification of hearing impairments, evaluation, reporting, effects and management, nature

practice "Physician" means a physician licensed in Illinois to medicine in all of its branches.

effective Reg. 111. 22 at (Source: Amended

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NOTICE OF PROPOSED AMENDMENTS

Section 675.30 Incorporated Materials

a) The following document is incorporated in this Part:

ANSI S-3.6 1989 (ASA81)
Specification for Audiometers
American National Standards Institute
1430 Broadway
New York 10018, or
ASA Standards Distribution Center
1650 Bluelrass Lakes Parkway
Alpharetta, GA 30239-6996

- b) This incorporation by reference refers to the materials on the date specified.
 - c) Copies of the incorporated document are available for inspection and duplication by the public at the Department's Central Office, Office of Health and Wellness, Division of Health Assessment and Screening (535 West Jefferson Street, Springfield, Illinois 62761).

(Source: Added at 22 Ill. Reg. ____, effective

SUBPART B: STANDARDS, AND PROCEDURES, - TECHNIQUES
AND-CRITERIA FOR HEARING SCREENING

Section 675.100 Instrumentation

- a) Pure-tone audiometers utilized for identification audiometry must comply with minimum specifications established by the American National Standards Institute as published in the American National Standard Specifications for Audiometers: (ANSI S 3.6 1989 (ASAR1)).

 (ANSI--53-6-1969)
- b) Pure-tone audiometers utilized for identification audiometry must undergo an electro-acoustic coupler calibration check a minimum of once per calendar year. The electro-acoustic calibration check shall include the following measurements:
 - 1) frequency count;
- 2) attenuator linearity; and
- 3) earphone sound pressure level output.
 c) An annual This calibration check services program may be service-is-to be-supervised-and provided or authorized through-programs-developed by

the Department7asprovidedforintheBepartment4sAudiometer Galibration-Standards-which-are-on-file-with-the-Secretary-of-State.	effective
inthe file-with	Reg.
dedfor -are-on-	111.
-provi -which	22
ndards	at
Department	Amended
the ealtb	(Source: Amended

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

Section 675,110 Frequency of Screening

- a) Hearing screening services shall be provided annually for all preschool children three years of age or older in any public or private educational program or licensed child care center factity.
- Hearing screening services shall be provided annually for all school age children who are: in grades K (Kindergarten), 1, 2, and 3; in all special education classes; referred by teachers; and transfer students. Such screening services shall be provided in all public, independent, private and parochial schools shall-be-provided-annualty for all-children-in-grades-kindergarten-ly-2-rand-3r-and-after-grade 9-for-teacher-referrals-and-students-transferring-into-schools-who have-not-been-previously-screened.
- c) In lieu of the screening services required in <u>subsections</u> paragraphs

 (a) and (b) of this <u>Section</u> section; a completed and signed report form, indicating an a-professional ear examination by a physician licensed to practice medicine in all of its branches has been administered <u>within the previous</u> not-over 12 months previously7--is acceptable.
 - d) Hearing---screening--services--in--publicy--independenty---private--and parochial-schools-shall-be-provided-annually-for-all-special-education children-screened-using-screening-methods-contained-in-Section-675;120 of these-rules-
- accepting tests for their child children on religious grounds. If a religious objection is made, a written and signed statement from the parent or legal guardian detailing such objections must be presented to the local school authority. General-philosophical-or-moral reluctance-to-allow-hearing-screening-will-not--provide--a--sufficient basis-for-an-exception-to-statetecy-requirements.

(Source: Amended at 22 Ill. Reg. ____, effective _____,

Section 675.120 Identification Audiometry

a) Screening Procedures

 For the screening stage of identification audiometry, the following pure-tone frequencies and intensity levels shall be used:

Screening Levels in Decibels	25 dB	25 dB	25 dB	25 dB
lest Frequencies in Cycles Per Second	500 Hz	1000 Hz	2000 Hz	4000 Hz

NOTICE OF PROPOSED AMENDMENTS

- immediately--raise the level should be raised to 35 dB and presented present-it again to the child. If the child responds dB level, proceed meve-on to the next test frequency In the event the child's condition is such that recommended screening procedures are not applicable, the child should receive alternative services if the child is considered at risk for hearing difficulties. 25 dB, at If a child fails to hear any tone and present the tone at 25 dB. 2)
 - Fail Criteria (q
- A child is considered to have "failed" the screening test, if
 - B) fails to hear any two tones at 25 dB in the same ear. A) fails to hear any tone at 35 dB in either ear; or
- criteria. The second screening should occur 10 to 14 days after within-two-weeks-of the first screening test. Those children who to the first and judged by the same Children "failing" the screening test must should be given a fail the second screening must should then have a threshold test. second screening identical 2)
 - Threshold Test Procedures ô
- It is recommended that the right ear be tested first. Always begin testing at 1000Hz. After determining threshold at 1000 Hz, continue Then switch to the opposite ear and repeat the entire procedure at with the following frequencies: 2000, 4000, 8000, 500 and 250 Hz. 1000, 2000, 4000, 8000, 500 and 250 Hz.

effective Reg. 111. 22 at (Source: Amended

Section 675.140 Referral

- Medical examination evaluation must be immediately recommended in written form to the parents or guardians of all children who meet the The--referrat--criteria--is--set-forth-in-Section-675-138-of the local education agency (LEA) or its designee for educational screening, criteria specified in Section 675.130 as a result The names of such children shall including audiological review. threshold screening testing. referral reported a)
 - The screening agent or its designee shall initiate recommendations for coordinate those activities necessary to complete medical management medical examination evaluation and educational screening and shall of the child suspected of a hearing impairment. (q

effective	
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at	
Amended	
(Source:	

SPART C: GENERAL STANDARDS POR-TRAINING AND QUALIFICATIONS OF POR PERSONNEL PROVIDING TO-PROVIDE HEARING SCREENING

SUBPART C:

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

SERVICES

Section 675.200 Screening Personnel

Hearing screening services shall be provided by a hearing screening technician in or supervising, or has an a reement to work in or supervise, a school hearing screening program may apply <u> [or training.</u> A-eertificate-will-be-presented-following--sueeessful--completion renewed-each-three-years-by-attending--a--recertification--workshop----A--valid of--the--eourse---This-certificate-is-valid-for-athree-year-period-rand-ean-be certificate--in--hearing--as--defined--by--the--Department-is-eontingent-on-the with person Any who is working the Department. or its equivalent trained-and certified by **FOllowing**

- supervise-a-hearing-sereening-program-may--appiy--for--training----The screening--program--must--be-for-identification-of-hearing-problems-in Any-person-with-a-high-school--education--or--its--equivalent--who--is working--in--or-supervising-or-has-a-definite-commitment-to-work-in-or 40
 - Pull-attendance-at-the-hearing-course-is-mandatorypreschool-and-school-age-children;
- Successful-completion-of-a-written-examination-at--the--conelusion--of the--leeture--series----A--score--of--75--pereent--or--greater-must-be obtained,-or-the-trainee-will-be-failed. et to
- includes:---the--ability-to-instruct-and-test-ehildren;-the-ability-to reeognize--sereening--failures--and--referrals;--and--the--ability--to suecessfully-organize-and--maintain-the--hearing--sereening--program: Patlure--to--sueeess£ully--demonstrate--profieieney--at--the-practicum portion-of-the-workshop-will-result-in-the-traince--being--eategorized Bemonstration-of-proficiency--at--a-hearing--praetieum----This--phase into-one-of-the-following-groups: d.
 - upass--with--further--supervision^u---this-category-will-allow-the trainee-to-pass-the-eourse--after--demonstration--of--profierency through--an--additional--supervisory--visit(s)--by--the--regional
- -the-category-indieates-the trainee---did-not--meet-expectations-and-will-not-be-eertified-to μεαżłure-to-demonstrate-profieiency^{μ---} hearing-consultant-of-the-Department; perform-hearing-testing-43
 - 10
- The-training-eourse-involves-intensive-instruction-and-practice--time: The -curriculum-shall-include-but-is-not-limited-to-the-following:
 - Hearing-impairment-and-the-philosophy-of-hearing-eonservation: Basic-anatomy-and-physiology-of-the-hearing-meehanism;
 - Bisorders-of-hearing:
- Entroduction-to-hearing-testing-and-test-equipment: The-hearing-threshold-and-the-audiogram-
- Hearing-screening-practicum:
- effective Red. 22 at (Source: Amended

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NOTICE OF PROPOSED AMENDMENTS

An applicant for training and certification as a hearing screening technician shall complete and submit to the Department an Application for Training and Certification Form, provided by the Department. effective Reg. 111. 22 at (Source: Added

Section 675.220 Training for Hearing Screening Technicians

- <u>The Department shall provide or authorize a training course to prepare</u> persons to qualify for a hearing screening services certificate. a)
- The training course for hearing screening technicians shall include, but shall not be limited to, the following topics: establishing and managing a hearing conservation program, hearing conservation for testing room, threshold tests, testing preschool children, testing exceptional children, and follow-up. The training course shall also include laboratory practice, practicum experience, and a written audiometer, physics of sound, the measurement of hearing, selecting a children, anatomy of the ear, disorders of hearing in children, examination. (q

effective Reg. 111. 22 at (Source: Added

Section 675.230 Certification of Hearing Screening Technicians

- training the after The Department shall issue a certificate participant: a)
 - Submits the training and certification fee as required in Section 675.300; a
- Fully attends all portions of the training course; 35
- the written a score of 80 percent or better on examination; and Obtains
- Screening, Threshold, Audiometric Skills, General Skills, and Overall following items: Demonstrates proficiency during a hearing training practicum. rated acceptable to qualify Practicum participants will be rated on the þe All above items must certification. Skills. (q

effective Reg. 111. 22 at (Source: Added

Section 675.240 Recertification of Hearing Screening Technicians

three for A hearing screening technician certificate shall be valid years. a)

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

- The Department shall send expiration and renewal notices to certified Such notices shall be sent to the last known address of persons no later than 60 days before the expiration date of the person to whom the certificate was issued. certificate. q
- certification renewal and shall be post-marked no later than 30 days to the Department prior to the expiration date of the certificate: submitted þe items shall following
 - a completed Certification Renewal Form:
- the renewal fee, as required in Section 675.300 of this Part; and Documentation of satisfactory completion of a recertification workshop provided or authorized by the Department, or a study 322
 - The Department shall renew the certification upon receipt of the items specified in subsections (c)(1), (2), and (3) of this Section. project provided by the Department. ď
- form, pay the renewal fee 30 days prior to the expiration date of the Failure to receive a renewal notice shall not relieve the certified hearing screening technician of the obligation to submit the renewal certification, and successfully complete a recertification workshop or study project. ()

effective Reg. 111. 22 at (Source: Added

Section 675.250 Lapsed Certificate

- þe Any certification not renewed prior to its expiration date shall deemed lapsed and shall be null and void. a)
 - Any certification that has lapsed for a period of less than 2 years may be renewed by completing the recertification requirement paying the fees specified in Section 675,300 of this Part. (q
- Any certification that has lapsed for a period of 2 years or more may of this be renewed by meeting the requirements of Section 675.230 0

effective Reg. 111. 22 at (Source: Added

SUBPART D: FEE STRUCTURE

Section 675.300 Fees

The Department shall implement the following fee structure:

- Failure to appear for training the time and place specified, after the Applicants shall be required to pay to the Department or its. designee acknowledged by the Department, shall result in forfeiture of the fee. applicant's application and fee for training has been received a fee for attending a training course. scheduled date, at on a)
 - The certification fee is \$30 every three years. a

NOTICE OF PROPOSED AMENDMENTS

- The fee for the issuance of a replacement certificate or a certificate with a change of name or address, other than at renewal time, is \$10. No fee is required for name or address change on Department records when no duplicate or replacement certificate is issued. Ö
- The fee for an electro-acoustic calibration check provided by the Department is \$10 for each audiometer checked. q)

effective Reg. 111. 22 at (Source: Added

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

- Heading of the Part: Hearing Training Applicant Requirements 1)
- 77 Ill. Adm. Code 680 Code Citation: 2)
- Proposed Action: Repealer Repealer Repealer Section Numbers: 680.20 680.10 680.30 3)
- Authorized by and implementing the Child Vision and Hearing Test Act [410 ILCS 205]. Statutory Authority: 4)
- is consolidating into one Part three sets of rules concerning hearing screening for pre-school and school age children, training requirements A Complete Description of the Subjects and Issues Involved: The Department for hearing screening technicians and audiometer calibration standards. This consolidation will simplify the rules, eliminate redundancies, and update the rules to current standards of practice. This rulemaking repeals persons making application for a training course in hearing screening. The other two rulemakings that are involved in the consolidation are published obsolete eligibility, cost, and training curriculum requirements in this issue of the Illinois Register. 2)
- Will this Rulemaking Replace an Emergency Rule Currently in Effect? No (9
- Does this Rulemaking Contain an Automatic Repeal Date? No 7)
- No Does this Rulemaking Contain Any Incorporations By Reference? 8
- Are there any other Proposed Amendments Pending on this Part? 6
- Statement of Statewide Policy Objectives: This rulemaking does not create or expand a State Mandate. 10)
- this Rulemaking: Interested persons may present their comments concerning these rules by writing within 45 days after this issue of the Illinois Register Time Place, and Manner in which Interested Persons May Comment on 11)

Illinois Department of Public Health 535 West Jefferson, Fifth Floor 217/782-2043 E-mail:rules@idph.state.il.us Springfield, Illinois 62761 Division of Legal Services Ms. Gail M. DeVito

12) Initial Regulatory Flexibility Analysis:

NOTICE OF PROPOSED REPEALER

- Type of Small Businesses, Small Municipalities and Not-for-Profit Corporations Affected: None A)
- Reporting, Bookkeeping or Other Procedures Required for Compliance: B)
- Types of Professional Skills Necessary for Compliance: None c)
- Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the 2 most recent Regulatory Agenda because: the decision to propose this rulemaking had not been made when the Regulatory Agenda was finalized. 13)

The full text of the Proposed Repealer begins on the next page:

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED REPEALER

CHAPTER I: DEPARTMENT OF PUBLIC HEALTH SUBCHAPTER j: VISION AND HEARING TITLE 77: PUBLIC HEALTH

PART 680

HEARING TRAINING APPLICANT REQUIREMENTS (Repealed)

Section

Eligibility 680.10 680.20

Cost

Lecture Session Curriculum 680.30

AUTHORITY: Implementing and authorized by the Child Vision and Hearing Test Act [410 ILCS 205].

22 SOURCE: Filed December 30, 1977; codified at 8 Ill. Reg. 4511; repealed at , effective Ill. Reg. _

Section 680.10 Eligibility

Any person with a high school education or its equivalent who is weaking in or a hearing testing program may apply for training. The testing program must be an identification audiometry program consisting of individual pure-tone hearing tests. The program will not suffice as a training course for industrial supervising or has a definite commitment to work in or supervise testing.

Section 680.20 Cost

- There will be no fees for attendance at a training course a)
- provide reimbursement for lunches or travel expenses incurred while attending The Illinois Department of Public Health will the training class.
- motel selected by the Illinois Department of Public Health, plus a will be reimbursed for one half of the rate of a double room at the (Reimbursement is contingent upon the program budget for the relevant more than one hour travel time each way are eligible for overnight accommodations, if desired. Those persons who elect to stay overnight Persons living 50 miles or more from the training site or who fiscal year.) A receipt for the motel must be submitted. food allowance of \$7.75 per day G
- Department in the routine manner. A delay of four to six weeks should Reimbursement will be by stipend, which will be processed through this be expected before receipt of the reimbursement check. q)

Section 680.30 Lecture Session Curriculum

a) Five days of lecture will be provided (Monday through Friday); a

NOTICE OF PROPOSED REPEALER

-wo-day practicum will be conducted approximately two weeks following is an outline of the lecture the lecture session. The following session curriculum:

- Hearing impairment and the philosophy of hearing conservation;
 - Basic anatomy and physiology of the hearing mechanism;
- Disorders of hearing;
- The hearing threshold and the audiogram; 3)
- Introduction to hearing testing and test equipment;
- educational management of persons with hearing Medical and impairment; 5)
- Public relations;
- Organizing and conducting a hearing conservation program;
- Special testing techniques for pre-school and difficult-to-test Calibration and maintenance of equipment; 10)
- Supervised labs on hearing testing; children;
 - 12) Field practice.
- The course will be taught by the staff of the Hearing Conservation Program of the Illinois Department of Public Health. (q
 - A follow-up workshop has been scheduled a few weeks following the training course. This one-day session will be designed to: 0
 - 1) Evaluate the effectiveness of the training;
- Assist the trainees in solving individual program problems; and 3) Provide additional information to the trainees.
- This certificate is valid for a three-year period, and can be renewed each three years by attending a short refresher A certification will be presented following successful completion of g

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NOTICE OF PROPOSED AMENDMENTS

- Heading of the Part: Vision Screening
- 77 Ill. Adm. Code 685 Code Citation: 5)

Proposed Action: Amendment	Amendment	Amendment	New Section	Amendment	New Section	New Section	New Section	Repealer	Repealer	Repealer	New Section	Repealer	Repealer	New Section	Repealer					
3) Section Numbers: 685.10	685.20	685.110	685,115	685.120	685.130	685,140	685.150	685.200	685.210	685.220	685,230	685,240	685,250	685,260	685.270	685.280	685.300	685.310	685.320	685.400

- implementing Section 4 of the Child Vision and Hearing Test Act [410 ILCS 205/4]. and ρλ Authorized Statutory Authority: 4)
- This rulemaking updates the Department's requirements for vision screening vision The amendments specify services and set fees for training courses, certification, and Complete Description of the Subjects and Issues Involved: providing training and certification standards for technicians for preschool and school age children. issuance of replacement certificates. screening services 2)
- S N Will this Rulemaking Replace an Emergency Rule Currently in Effect? (9
- Does this Rulemaking Contain an Automatic Repeal Date? 7)
- Does this Rulemaking Contain Any Incorporations By Reference? 8
- Are there any other Proposed Amendments Pending on this Part? 6
- create Statement of Statewide Policy Objectives: This rulemaking does not or expand a State Mandate. 10)

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NOTICE OF PROPOSED AMENDMENTS

11) Time, Place, and Manner in which Interested Persons May Comment on this Rulemaking: Interested persons may present their comments concerning these rules by writing within 45 days after this issue of the Illinois Register to:

Ms. Gail M. DeVito
Division of Legal Services
Illinois Department of Public Health
535 West Jefferson, Fifth Floor
Springfield, Illinois 62761
217/782-2043
(E-mail: rules@idph.state.il.us)

12) Initial Regulatory Flexibility Analysis:

- A) Type of Small Businesses, Small Municipalities and Not-for-Profit Corporations Affected: None
- B) Reporting, Bookkeeping or Other Procedures Required for Compliance:
- C) Types of Professional Skills Necessary for Compliance: None
- 13) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the 2 most recent Regulatory Agendas because: the decision to propose this rulemaking had not been made when the Regulatory Agenda was finalized.

The full text of the Proposed Amendments begins on the next page:

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

TITLE 77: PUBLIC HEALTH CHAPTER I: DEPARTMENT OF PUBLIC HEALTH SUBCHAPTER j: VISION AND HEARING

PART 685 VISION SCREENING SUBPART A: AUTHORITY, APPLICABILITY, AND GENERAL PROVISIONS
DEPINITIONS

Section 685.10 Applicability 685.20 Definitions SUBPART B: STANDARDS, AND PROCEDURES, TECHNIQUES - AND CREENING CRIFFERIA FOR VISION SCREENING

Section 685.100 Instrumentation

685.110 Frequency of Screening

685.115 Pass/Fail and Referral Criteria 685.120 Referral 685.130 Screening Battery for School Age Children

685.140 Screening Battery for Preschool Children and Difficult to Test

Children 685.150 Screening Battery for Children Wearing Glasses or Contact Lenses

SUBPART C: STANDARDS FOR PERSONNEL PROVIDING VISION SCREENING SERVICES
GENERAL-CCANDADDS -- CPIERDRIA - AND DRACEPHERS

ART C: STANDARDS FOR PERSONNEL PROVIDING VISION SCREENING S: GENERAL-STANDARBS,-CRITTERIA-AND-PROCEDURES
POR-SCHOOD-VISION-SCREENING

Section 685.200 Screening Battery (Repealed)

685.210 Screening and Rescreening Procedures (Repealed) 685.220 Pass/Fail and Referral Criteria (Repealed)

685.230 Personnel

685.240 Training for Vision Screening Technicians

Application for Training and Certification

585.250

885.260 Certification of Vision Screening Technicians 885.270 Recertification of Vision Screening Technicians

585.280 Lapsed Certificate

SUBPART D: <u>FEE_STRUCTURE</u> GENERAL-STANDARBS,-CRITERIA,-AND-PRGEEDURES FOR-PRESCHOOL-VISION-SCREENING

Section 685.300 Screening and Rescreening Procedures <u>(Repealed)</u>

685.310 Pass/Fail and Referral Criteria (<u>Repealed)</u>

NOTICE OF PROPOSED AMENDMENTS

Fees 685.320

GENERAL STANDARDS FOR TRAINING AND QUALIFICATIONS FOR PERSONNEL TO PROVIDE VISION SCREENING SERVICES SUBPART E:

Section

Screening Personnel (Repealed) 685.400

of 4 AUTHORITY: Implementing Sections 3, 4, and 5 and authorized by Section the Child Vision and Hearing Test Act [410 ILCS 205/3, 4, and 5]. Adopted and codified at 6 Ill. Reg. 11053, effective August 30, 1982; , effective amended at 22 Ill. Reg. SOURCE:

SUBPART A: AUTHORITY, APPLICABILITY, AND GENERAL PROVISIONS

BEFENEENS

Section 685.10 Applicability

The Child Vision and Hearing Test Act authorizes the Department to administer a These rules apply program of vision screening services for Illinois children. to vision screening services required under the Act.

- The---Child--Vision--and--Hearing--Test--Act--requires-vision-screening services-be-administered-to-ali-children;---These-rules-apply-to-vision sereening-services-required-under-that-Aet-
- sereening--services----The--Department--shall-make-sueh-delegations-in The Department shall-delegate responsibility-to-other-State--agencies, local---health--departments7--school--districts7--or--other--community agencies,---to---develop--and--maintain--periodie---vision--and---hearing conformance-with-existing-services-and-with-the-approval-of-the-entity receiving-the-delegation. 49

effective Reg. 111. 22 at (Source: Amended

Section 685.20 Definitions

this Part these-rules, the terms defined in this Section section shall have the meanings ascribed to in them herein. used in

"Act" means the Child Vision and Hearing Test Act [410 ILCS 205].

"Department" means the Illinois Department of Public Health.

branches and specializing in diseases of the eye or a licensed "Eye doctor" means a physician licensed to practice medicine in all optometrist.

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NOTICE OF PROPOSED AMENDMENTS

"Vision Screening Services" means ongoing community education programs identification, prevention, causes, Such programs utilize program planning, management, evaluation and reporting, procedures for detecting possible abnormalities of the visual system, nature and effects of vision impairments. topics: covering the following follow-up.

"Vision---Screening"---means---a---procedure--for--deteeting--possible abnormality~-of--the--visual--system--with~~referral--for--eorrection7 treatment,-or-appropriate-school-placement.

effective Reg. 111. 22 at (Source: Amended

STANDARDS, AND PROCEDURES, - FECHNIGHES - AND - CRIFFER FOR VISION SCREENING SUBPART B:

Section 685.110 Frequency of Screening

- Vision screening services under-these-rules shall be provided annually for: a)
- public or private educational program or licensed child-care facility. All preschool children 3 years of age (or older) in any 1)
- All school age children who are in kindergarten and first grade; in fourth or fifth grade; in all special education classes; referred by teachers; and transfer students. Such screening services shall be provided in all public, independent, private parochial schools. Alt--ehildren-in-grades-kindergarten-or first,-5th-and-9th-grades-of--publie,--independent,--private--and parochial-sehools: 2)
- <u> Teacher-referrals-and-students-transferring-into-schools-who-have</u> not-been-previously-screened-34
- Alt--special--education-children-in-public,-independent,-private, and-parochial-schools-using-standard--sereening--methods--as--set forth-in-these-rules-44
- In lieu of the screening services required in subsection (a) paragraph this Section, a completed and signed report form, M.D. specializing in diseases of the eye or a licensed optometrist has been administered within the previous 12 months not--over--12--months that an a--professional eye examination by an previously, is acceptable. of tat--aboveindicating (q
 - The parent or legal guardian of a student may object to vision objection is made, a written and signed statement from the parent or legal guardian detailing such objections must be presented General-philosophical or--moral--relactance---to--altow--vision--acreening-vill-not-provide-a screening tests for their child ehildren on religious grounds. sufficetent-basis-for-an-exception-to-statutory-requirements: to the screening entity local-school-authority. religious ô

NOTICE OF PROPOSED AMENDMENTS

Section 685.115 Pass/Fail and Referral Criteria

shall refer to the rescreening test. Pass/fail and referral criteria are Pass/fail criteria shall refer to the initial screening test. Referral criteria identical standards as presented below:

- School age children: a)
- Massachusetts Battery of tests:
- Phoria near and far: A)
- For children in first grade, target alignment outside a defined area for both near and far modes constitutes a failure.
- For children in second grade and above, target alignment outside a defined area for either near or ii)
- fewer Visual acuity. The correct identification of three or of the monocular symbols constitutes a failure. far modes constitutes a failure. 딞
 - Hyperopia. The correct identification of four or more of the monocular symbols constitutes a failure. 디
- Color discrimination. The correct identification of five or fewer of the eight targets constitutes a failure. 7
- the five letters in each of the three columns BRL (both right and left). The correct identification of three or constitutes a failure. fewer 3
- Michigan Preschool Test. The correct identification of three Preschool and Kindergarten grade children: a q
- fewer of the monocular symbols constitutes a failure.

 HOTY (stereoscopic or distance arreanian)
- identification of three or fewer of the monocular symbols correct The screening). distance constitutes a failure. 7

effective Reg. 111. 22 at Added (Source:

Section 685.120 Referral

- vision diagnostic examination must be immediately recommended in written form to parents or quardians of all children who meet referral including observation, vision screening, instrument screening, or monitoring. criteria as a result of a)
- for a diagnostic examination and shall coordinate those activities to complete the diagnostic examination and treatment management of the child suspect of a vision impairment. necessary

The screening entity or its designee shall initiate recommendations

a

- instrument-sereening-shall-be--reported--in--writing--to--the--child-s Based-on-the-eriteria--set--forth--in--Sections--605,220--and--Section 695-3187--any--observed-anomaly-or-possible-problem-identified-through parent-or-legal-guardian. 4
 - The--parents--or--legal-guardians-shall-be-recommended-through-written ţ,

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notification-to-obtain-a-vision-diagnostic-examination-for-their-child
TI TO TO THE CONTROL OF THE CONTROL
previous-12-months.

- The--vision--diagnostie--examination-shall-be-made-by-an-eye-doctor-of the-parents-or-guardian-s-choice-¢
- The screening agency or its designee shall be responsible to -initiate follow-up-servicesţ,

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Section 685.130 Screening Battery for School Age Children

- 12, shall consist of: Observation of the child (appearance, behavior, complaint). The screening battery for school age children, grades l

- Stereoscopic instrument screening using the Massachusetts Battery tests presented in the following order:
- A test for muscle balance (phoria) at near and far points, in the
- A test for visual acuity at far point, in the monocular mode; and A test for excessive farsightedness (hyperopia) at far point, the monocular mode. 35
- in the binocular mode, and prior to the hyperopia test; this The Pediatric Color Discrimination Test may also be presented, at test should be conducted at first grade. point G
- in the binocular mode, may be conducted in lieu of the Massachusetts Battery, The BRL (Both Right and Left) Test, at near and far points for junior and senior high school students. g
 - School age children shall be screened with 20/30 targets. e

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Added	
(Source:	

Section 685.140 Screening Battery for Preschool Children and Difficult to Test

The screening battery for preschool children, three years and older, Children

- Observation of the child (appearance, behavior, complaint). Kinder arten grade children shall consist of: a (a
 - Instrument screening using any one of the following tests:
- Stereoscopic instrument screening using the Michigan Preschool Stereoscopic instrument screening using the HOTV test at rest at far point. 7

far

- Distance instrument screening using the Good-Lite Insta-Line HOTV point. 3)
- screening battery and procedures may be utilized when screening difficult to test children, including children who are The preschool test. 히

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	developme	ntal	lly dis	lisabled,	l, etc.						
ď	Preschool	and	Kinde	rgarter	n grade	l and Kindergarten grade children shall be screened wit	shall	pe	screened	with	h 20/40
	targets.										

Д	hotosc	creening		usiı	using the	he	MTI	MII camera, may be conducted for children	may	pe	condı	acted	for	child	ren
3	under three years of age	hree	years	of	age	and	for	colder		hild	children	who	can	not	pe
S	creened	d wit	d with stereoscopic	reos	scopi	COL	c or distance	ance t	e tests						

effective Reg. 111. 22 at (Source: Added

or Screening Battery for Children Wearing Glasses Section 685.150 Lenses

The screening battery for children wearing glasses shall consist of: Observation (appearance, behavior, and complaint); a

122

Inspection of the lenses and frames for problems; and

children wearing contact lenses shall Determination of the child's last visit to an eye doctor. screening battery for The 9

Instrument screening of children wearing glasses or contact lenses consist of (a)(1) and (3) of this Section. Ç

effective Reg. 111. 22 at not appropriate. Added (Source:

STANDARDS FOR PERSONNEL PROVIDING VISION SCREENING SERVICES SUBPART C:

GENERAL-STANDARDS,-CRITTERTA-AND-PROCEDURES

POR-SCHOOL-VISION-SCREENING

Screening Battery (Repealed) Section 685,200

The appropriate battery of tests and order of presentation shall consist of . Observation-of-the-child-

A-series-of-tests--which--are--conducted--in--a--prescribed--order--as fettews: 4 4

A-test-for-Phoria-at-the-Near-and-Far-points, A-test-for-Visual-Acuity; ±+

A-test-for-Excessive-Farsigntedness-(Hyperopis)--and 44

Optional-Tests:

effective Reg. 111. 22 at (Source: Repealed

Section 685.210 Screening and Rescreening Procedures (Repealed)

Observation-of-the-child-is-to-determine-the-appearance-of-the--eyes, behavior--of--the--child--for-signs-of-unusual-visual-symptomsy-and∤or complaints-by-the-child-regarding-vision-difficulties-40

ILLINOIS REGISTER

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

p	Mana	Management-on-Screening-Day-of-Children-Wearing-Glasses-or-Under-Care.
	-The	-The-Filinois-Department-of-Public-Health-recommends-childrenwearing
	gtas	glasses-should-not-be-screened:
e t	Sere	Screening-Tests.
	1 +	Phoria-Near
		The-test-is-conducted-in-a-binocular-mode-with-the-instrument-set
		for-the-Near-presentation-of-the-target-
	2	Phoria-Par
		The test is conducted in a binocular mode with the instrument set
		for-the-Far-presentation-of-the-target-
	÷€	Visual-Acuity
		Thetestis-conducted-in-a-moncular-modey-always-beginning-with
		the-right-eyeThe-instrument-is-set-for-the-presentation-of-the
		target-at-the-Far-positron.
	4+	Нурегоріа
		The-instrument-is-set-for-a-Par-presentation-ofthetargetand
		thePiusbensinplaceThe-test-is-conducted-in-a-moncular
		moder-always-beginning-with-the-right-eye.
₽	Resc	Rescreening-procedures-are-identicaltotheinitialscreeningand
	eend	conducted-following-a-10-14-day-delay-

Section 685.220 Pass/Fail and Referral Criteria (Repealed)

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(Source: Repealed

AT SOMBOOK-COMMEDIAGE BURKET DOG-WORK OF BUT COMMENDED TO SOMBOOK OF THE BUT COMMENDED TO SOMBOOK OF THE BUSINESS OF THE BUSIN	Pass/Pailcriteriashallrefertotheinitialscreeningtest;	Referralcriteria-shall-refer-to-the-rescreening-testThe-Pass/Pail	and-Referral-Criteria-are-identical-standards-presented-inParagraphs	c)-through-e}-belowy-of-this-section.	Phoria-Near-and-Far	1) Forchildrenin-first-grade,-target-alignment-outside-a-define	area-for-both-Near-and-Par-modes-shall-constitute-a-failure	2) For-children-in-second-grade-and-above,-target-alignmentoutside	adefinedareafor-either-Near-or-Par-Modes-shall-constitute-a	
1.00	Hscreeningtes	testThe-Pass/Pa	ented-inParagrap			nt-outside-a-define	tute-a-failure.	t-alignmentoutsid	s-shall-constitute-	

The-correct-identification-of-3-nor--less--of--the--monocular--symbols constitutes-a-failure. Visual-Acuity d-} t o

The--correct--identification--of-four-or-more-of-the-monocuiar-symbols constitutes-a-failure-Hyperopia

effective Reg. 111. 22 at Repealed (Source:

Section 685.230 Personnel

ILLINOIS REGISTER 5826 98	DEPARTMENT OF PUBLIC HEALTH	NOTICE OF PROPOSED AMENDMENTS	Section 685.270 Recertification of Vision Screening Technicians		Years. The Department shall send expiration and renewal notices to certified persons no later than 60 days before the expiration date of the certificate. Such notices shall be sent to the last known address of	shall be submitted to the Department	certificate: Form; Section 685,320; a	3) Documentation of satisfactory completion of a recertification workshop provided or authorized by the Department, or a study project provided by the Department.	d) The Department shall issue a renewed certificate upon receipt of items specified in subsections (c)(1), (2), and (3) of this Section. e) Failure to receive a notice to renew shall not relieve the certified		project.	(Source: Added at 22 Ill. Reg, effective	Section 685.280 Lapsed Certificate	rtific lapsed tifica	renewed by completing the recertification reguirement and paying the fees as required in Section 685.320. C) Any certificate langed for a neriod of two years or more may be	renewed by meeting the application, training and certificati requirements of this Part.	SUBPART D: <u>FEE STRUCTURE</u> GENERAL-SFANBARBS,-CRFFERFA,-ANB-PROCEBURES FOR-PRESCHOOL-VISION-SCREENING	Section 685.300 Screening and Rescreening Procedures (Repealed)	a) Observation-of-the-child-shall-be-conducted-in-accordance-with-Section 605-210(a):	b) The-instrument-screening-of-the-child-is-visual-acuity-in-amonocular
ILLINOIS REGISTER 5825 98	DEPARTMENT OF PUBLIC HEALTH	NOTICE OF PROPOSED AMENDMENTS	Vision screening services shall be provided by a vision technician certified by the Department. Any person with a high school education or its equivalent who is working in or supervising, or has a definite commitment to work in or	n screening program may apply for training. the identification of vision problems in pu	(Source: Added at 22 Ill. Reg, effective,	Section 685.240 Training for Vision Screening Technicians	a) The Department shall provide or authorize a training course to prepare persons to qualify for a vision screening services certificate. b) The vision training course shall include, but shall not be limited to,	the vision process, diseases and disorders of the eye, vision screening, the difficult to test child, referral and follow-up	hing, managing and evaluating e training course shall also cum experience, and a written exar	(Source: Added at 22 Ill. Reg. effective	Section 685.250 Application for Training and Certification	Applicants for training and certification shall complete and submit, to the Department, the Application for Training and Certification Form.	(Source: Added at 22 Ill. Reg, effective	Section 685.260 Certification of Vision Screening Technicians	a) The Department shall issue a certificate after the training participant:			4) Demonstrates proliciency during a vision training practicum. b) Practicum participants will be rated on the following items: School Age Tests, Preschool Tests, General Skills and Overall Skills. All	items must be rated acceptable to qualify for certifica	(Source: Added at 22 Ill. Reg. , effective

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

mode-at-the-Far-position-only:Always-begin-with-the-right-eye:	c) Preschoolrescreeningproceduresareidenticaltotheinitial	server a contract of the contr
mode-at-the	+ Preschool	4-56-56
	Ü	

4	d) Preschool-screening-procedures-shallbeapplicabletotestingthe	
	difficult-to-testchildincluding-the-mentally-handicapped,-learning	
	disabledy-foreign-speakingy-hearing-handicappedy-etcyIntheevent	
	thechild.sconditionis-such-that-recommended-screening-procedures	
	are-not-applicable,-the-child-should-receive-alternativeservicesif	

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Pass/Fail and Referral Criteria (Repealed) Section 685,310

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	ce: Re
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Fees Section 685,320

The Department shall implement the following fee structure:

- training has been received and acknowledged by the Department or the authorized training Failure to appear specified, be required to pay to the Department, for training on the scheduled date, at the time and place designee, a fee for attending a training course. for fee entity, shall result in forfeiture of the fee. the applicant's application and Applicants shall after a)
 - The certification fee is \$30 every three years. a 5
- The fee for the issuance of a replacement certificate or a certificate is required for name or address change on Department records with a change of name or address, other than at renewal time, is \$10. when no duplicate or replacement certificate is issued.

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Added	
(Source:	

SUBPART E: GENERAL STANDARDS FOR TRAINING AND QUALIFICATIONS FOR PERSONNEL TO PROVIDE VISION SCREENING SERVICES

Screening Personnel (Repealed) Section 685,400

Department:--A-certificate-will-be-presented-following-successful-completion-of Vision-screening-shall-be-provided-by-a-technician-trained-and-certified-by-the the--course----This--certificate--is--valid-for-a-three-year-periody-and-can-be

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DEPARTMENT OF PUBLIC HEALTH

NOTICE OF PROPOSED AMENDMENTS

renewed-each-three-years-by-attending--a--recertification--workshop----A--valid certificate--in--vision--as--defined--by--the--Bepartment--is-contingent-on-the

following:

- Any-person-with-a-high-school--education--or--its--equivalent--who--is working--in--or-supervising-or-has-a-definite-commitment-to-work-in-or supervise-a-vision-screening-program--may--apply--for--training----The screening--program--must--be--for-identification-of-vision-problems-in preschool-and-school-age-children-40
 - Pull-attendance-at-the-vision-training-course-is-mandatoryt to
- Successful-completion-of-a-written-examination-at--the--conclusion--of the--lecture--series:---A--score--of--75--percent--or--greater-must-be obtained--or-the-trainee-will-be-failed-
- includes:---the--ability-to-instruct-and-test-children;-the-ability-to recognize--screening--failures--and--referrals;--and--the--ability--to successfully-organize--and--maintain--the--vision--screening--program-Pailure--to--successfully--demonstrate--proficiency--at--the-practicum Demonstration-of--proficiency--at--a-vision--practicum----This--bhase portion-of-the-workshop-will-result-in-the-trainee--being--categorized into-one-of-the-following-groups: t to
 - "pass--with--further--supervision"---this-category-will-allow-the trainee-to-pass-the-course--after--demonstration--of--profictency through-an-additional-supervisory-visit(s)-by-the-regional-vision consultant-of-the-Department, ++
- #failure-to-demonstrate-proficiency*---the-category-indicates-the trainee--did--not--meet-expectations-and-will-not-be-certified-to perform-vision-testing-57
- Gurriculum **←**
- These-training-courses-are-offered-as-a--program--involving--intensive instruction--and--practice--time---The-curriculum-shall-include-but-is not-limited-to-the-following.
- Vision-program-philosophy-Ŧ.}
- Organizing-and-conducting-a-vision-screening-program: Approved-methods-of-screening-2 + 5 + 6
 - Standards-for-sereening-and-referral-44

 - Vision-sereening-referral-
- effective Reg. Ill. 22 at Repealed (Source:

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SECRETARY OF STATE

NOTICE OF PROPOSED RULE

- 1) Heading of the Part: Electronic Filing of Documents
- 2) Code Citation: 2 Ill. Adm. Code 565
- Proposed Action: New Section New Section New Section Section New Section Section New Section New Section Number: 565.40 565.10 565.20 565.30 565.50 656.55 565.60 3)
- 4) <u>Statutory Authority</u>: Implementing and authorized by Section 15 of the Secretary of State Act [15 ILCS 305/15] (see P.A. 89-670).
- 5) A Complete Description of the Subjects and Issues Involved: In conjunction with P.A. 89-670, these rules clarify procedures for electronic or facsimile filings with full legal effect. Specifically, the rules clarify how to determine which forms may be filed electronically or by fax, duties of filers, payment of fees, and retention of records.
- 6) Will this proposed rule replace an emergency rule currently in effect? No
- 7) Does this rulemaking contain an automatic repeal date? N
- 8) Do these proposed amendments contain incorporation by reference? N
- 9) Are there any other amendments pending on this Part? No
- 10) Statement of Statewide Policy Objectives: This rulemaking does not affect units of local government.
- 11) Time, Place and Manner in which interested persons may comment on this roposed rulemaking. Written comments may be submitted within 45 days to:

Carol Sudman Assistant Counsel Room 298, Howlett Building Springfield, IL 62756 217/782-4783

- 12) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: This rule is an optional new service, and will not adversely affect any business, not for profit entity, or unit of government.

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SECRETARY OF STATE

NOTICE OF PROPOSED RULE

- Reporting, bookkeeping or other procedures required for compliance: No additional reporting requirements are imposed.
- C) Types of professional skills necessary for compliance: No professional skills are relevant to this rulemaking.
- 13) Revulatory Agenda on which this rulemaking was summarized: This rule was not included on either of the two most recent regulatory agendas because: Had not decided at that time if clarification rules would be necessary.

The full text of the Proposed Rules begins on the next page.

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SECRETARY OF STATE

NOTICE OF PROPOSED RULE

SUBTITLE C: CONSTITUTIONAL OFFICERS TITLE 2: GOVERNMENTAL ORGANIZATION CHAPTER III: SECRETARY OF STATE

ELECTRONIC FILING OF DOCUMENTS

Where to Send Electronic and Facsimile Filings Accepted Electronic and Facsimile Documents Duties of Electronic and Facsimile Filers Acceptable Electronic Payment Retention of Records Section 565.55 565.10 565.20 565.30 565.40 565.50 565.60

Implementing and authorized by Section 15 of the Secretary of State Act [15 ILCS 305]. AUTHORITY:

effective Reg. 111. 22 at Adopted SOURCE:

Section 565.10 Definitions

"Electronic document" means data transmitted to the Secretary of State through an electronic medium including, but not limited to, disks,

purposes that the document was signed by the person whose signature appears on "Facsimile document" means a paper document transmitted to the Secretary of State via facsimile, the signature on which is prima facie evidence for all the facsimile. [15 ILCS 305/15]

"Internet" means a nonproprietary, public computer network.

Section 565.20 Accepted Electronic and Facsimile Documents

authority documents may be filed electronically (and the the Each department within the Office of the Secretary of State has appropriate electronic medium) or by facsimile. its to determine which of

Section 565.30 Where to Send Electronic or Facsimile Filings

the appropriate to transmitted department within the Office of the Secretary of State. Electronic and facsimile documents shall be

Section 65.40 Duties of Electronic and Facsimile Filers

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SECRETARY OF STATE

NOTICE OF PROPOSED RULE

documents are filed in of the receipt date electronic or facsimile transmission will constitute the receipt date document if it is acknowledged as accepted by the Secretary of State. The Electronic and facsimile filers shall ensure that to meet statutory deadlines. sufficient time

Section 565.50 Payment of Fees

The filer is responsible for the payment of any fees to the Secretary of State in relation to the electronic or facsimile document. A document required to be accompanied by a fee may not be deemed accepted or filed until payment is received.

Section 565.55 Acceptable Electronic Payment

Or used for electronic facsimile documents requiring the attachment of fees: The following electronic payment methods may be

- Automated Clearing House; a)
 - Payment Cards; or
 - Money Wire. (c)

Section 565.60 Retention of Records

Persons who file documents with the Secretary of State via facsimile or electronically shall maintain paper or electronic records for the time periods required by the statute under which the document is filed.

DEPARTMENT OF TRANSPORTATION

NOTICE OF PROPOSED AMENDMENTS

- 1) <u>Heading of the Part</u>: Minimum Safety Standards for Construction of Type I School Buses
- 2) Code Citation: 92 Ill. Adm. Code 440

Proposed Action:	Amend	Amend	Амела	Amend	Repeal	Amend	Repeal	Repeal	Donoal						
Section Numbers:	440.20	440.140	440.210	440.220	440.305	440.405	440.410	440.420	440.505	440.510	440.ILLUSTRATION A	440.ILLUSTRATION B	440.APPENDIX A	440.APPENDIX B	O XIUNAGGE OFF
3)															

- 4) Statutory Authority: Implementing Article VIII of Chapter 12 and authorized by Section 12-812 of the Illinois Vehicle Code [625 ILCS 5/Ch. 12, Art. VIII] (see P.A. 90-108, effective July 14, 1997).
- A complete description of the subjects and issues involved: By this Notice of Proposed Amendments, the Department is updating, clarifying and correcting the minimum safety standards for the construction of school buses manufactured for use in Illinois. The following paragraphs detail specific changes made to Sections in this Part.

Section 440.20 Guidelines: Removing unnecessary language; adding a statutory citation.

Section 440.140 Effective Date: Removing obsolete language

Section 440.210 Federal Definitions: Clarifying language and removing a reference to Appendix A which will be repealed.

Section 440.220 State Definitions: Clarifying language; updating references to and definitions from the Illinois Vehicle Code; updating statutory citations; correcting the definition of "empty weight" for consistency with 92 Ill. Adm. Code 442; removing the definition of "newton"; and revising the definition of "school bus".

Section 440.305 Certification by Manufacturer: Updating the statutory reference and clarifying requirements.

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DEPARTMENT OF TRANSPORTATION

NOTICE OF PROPOSED AMENDMENTS

Section 440.405 Conformance to the Requirements: Updating the statutory reference.

Section 440.410 Incorporation by Reference of Federal Motor Vehicle Safety Standards: Updating the date of incorporation by reference of 49 CFR 571, as of October 1, 1997 and correcting the reference to the standards found in 49 CFR 571.

Section 440.420 State Requirements: Deleting criteria in the introductory paragraph that refers to the bus not being rejected at an Official Testing Station for not complying with a number of standards. This is not a true statement. 92 Ill. Adm. Code 441(Inspection Requirements for Type I School Buses) does not provide the same exception. A school bus must meet all of the requirements of 92 Ill. Adm. Code 441 before a Certificate of Safety is affixed to the bus.

Aisle: Deleting the reference to non-handicapped students; deleting the reference to federal final rules now contained in the CFR.

Capacity, Passenger: Updating the statutory citation; clarifying that passenger space is for persons who are orthopedically-challenged.

Color and Paint, Exterior: Updating statutory language governing color; providing specific standards for white roofs; adding requirements for retroreflective tape required by 49 CFR 571.217.

Crossing Control Arm: Adding new provisions to establish specification standards for crossing control arms as required by Public Act 90-108, effective July 14, 1997.

Defrosters: Adding a reference to 49 CFR 571.103.

Emergency Exits: Adding a reference to 49 CFR 571.217; clarifying requirements unique to Illinois regarding alarms and the engine starting system for consistency with 92 Ill. Adm. Code 441.

Fire Extinguisher: Adding approval of halon fire extinguishers.

First Aid Kit: Adding requirements for the construction of the box which contains the kit. Language was moved to this subsection from Section 440.Appendix B which is being repealed.

Floor Covering: Removing the requirement that floor covering be "ribbed." (New designs in the floor covering provide necessary traction without ribbing.)

Fuel system: Removing the subsection that is applicable to Type II school buses (this language will be relocated to 92 Ill. Adm. Code

DEPARTMENT OF TRANSPORTATION

NOTICE OF PROPOSED AMENDMENTS

Type II School Buses) and adding a reference to 49 CFR 571.301 (Fuel System Integrity). for 442; Inspection Procedures

symbol the Renaming "inside" to "interior"; defining Heaters:

for objects located impact zone) for within 59 inches from the floor (designated head Interior: Clarifying the padding requirements consistency with 92 Ill. Adm. Code 441.

"stop signal arm" (adding the word "panel") for consistency with Lamps and Signals: Removing the procedural language required by the construction of school buses); correcting the reference to 49 CFR 571,108; updating the statutory reference; correcting the term used 92 Ill. Adm. Code 441; correcting the cross references to subsections Illinois Vehicle Code (these procedures are not necessary for in this Part. for

length on the interior bulkhead pursuant to National Traffic Safety Lettering: Amending, clarifying and adding language for consistency with 92 Ill. Adm. Code 441; renaming "inside" to "interior" and "outside" to "exterior"; adding a new requirement that buses new requirement that buses manufactured after December 31, 1998 be labeled with the vehicle's adding a Board (NTSB) findings. Mirrors: Adding a reference to 49 CFR 571,111 (federal standards now rearview mirror requirements specific to school buses); maintaining the existing language pertaining to additional optional be removed. convex mirrors and the protection of the reflecting back of each mirror; all other existing language will Noise: Adding a new subsection requiring radio/stereo speakers driver's seat for buses manufactured after December 31, 1998 pursuant to be located at least four feet behind the rearmost position to NTSB findings. Reflectors, Front: Clarifying and correcting language pursuant to the Illinois Vehicle Code and for consistency with 92 Ill. Adm. Code 441; adding requirements for side and rear reflectors; adding a requirement that any sheet type reflex reflector must meet 49 CFR 571.108 (\$5.7.1.2).

Correcting a cross reference to a subsection in this Part; renaming "outside" to "exterior". Rub Rails:

Correcting the reference to 49 CFR 571.222; removing dated the reference to persons with special needs; to non-handicapped students; correcting and correcting removing a reference language; Seating:

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NOTICE OF PROPOSED AMENDMENTS

to a subsection in this Part; correcting language regarding flip-up seats. a cross reference

Seat belts, Driver's: Adding a requirement that buses manufactured after December 31, 1998 be equipped with a lap belt/shoulder harness design for the driver.

bottom panel of the service door for consistency with the 1995 "outside" to "exterior"; establishing new criteria for glazing in the interior grab handle be on the left side of the entrance way; renaming National Standards for School Transportation; clarifying service door and Door: Requiring that the location of Entrance lock options. Service

panel" for consistency with 92 Ill. Adm. Code 441; removing dated now requires an octagon shape on all school buses); adding to "stop signal arm language pertaining to the hexagon-shaped semaphore (the federal Stop Signal Arm: Renaming "stop signal arm" language to allow additional stop arm panels. standard

Warning Devices: Clarifying requirements for consistency with 92 Ill. Adm. Code 441.

lettering on the rear of the bus be located at least 44.1 inches above requirement the Rear: Removing Glazed Panels, Oľ the floor. Windows

Window Openings, Side: Correcting the reference to this subsection; renaming "outside" to "exterior". Requirements: Correcting the reference to the Illinois Vehicle Code. to Conformance 440.505

"Incorporation by Reference of Federal Motor Vehicle Safety Standards"; correcting language necessary to incorporate federal regulations by the Section 440.510 Federal Requirements: Renaming reference.

no longer allowed on newly manufactured school Section 440.Illustration A Hexagon Shaped Stop Signal Arm: Illustration A which is

Section 440.Illustration B Octagon Shaped Stop Signal Arm: Renaming "stop signal arm" to "stop signal arm panel" for consistency with 92 Ill. Section 440.Appendix A Federal Motor Vehicle Safety Standards (FMVSS) and Related Regulations: Repealing Appendix A because it is outdated and

NOTICE OF PROPOSED AMENDMENTS

necessary for compliance with State standards. Manufacturers are required by federal law to comply with any applicable federal standard.

Section 440.Appendix B First Aid Kit Requirements (Referred to in Section 440.420(k)): Repealing Appendix B which is not necessary. Necessary language will be contained in Section 440.420(1).

Encapsulated Lens (Based on FHWA Notice N 5040.17, June 15, 1976): These requirements will be covered in Section 440.420(aa) which refers to Repealing Appendix C because these provisions are no longer necessary. Material Reflective 440.Appendix C Specification Sheet the applicable federal standard.

- Will this proposed rulemaking replace an emergency rule currently effect? (9
- Does this rulemaking contain an automatic repeal date? 7
- These Does this proposed rule contain incorporations by reference? Yes. conform to Section 5-75 of the Illinois Administrative Procedure Act. 8
- Are there any other amendments pending on this Part? 6
- of Statement of Statewide Policy Objectives: This Part will affect units local government that purchase school buses for use in Illinois. 10)
- <u>proposed rulemaking:</u> Any interested party may submit written comments or arguments concerning this proposed rule. Written submissions shall be Time, Place and Manner in which interested persons may comment on this filed with: 11)

By U.S. Mail:

Illinois Department of Transportation Regulations Unit Ms. Cathy Allen

Division of Traffic Safety

62794-9212 Springfield, IL P.O. Box 19212 (217) 785-1181

Commercial Vehicle Safety; 3rd Floor 3215 Executive Park Drive DOT Annex Building Springfield, IL

By Messenger or Inter-Agency Mail:

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DEPARTMENT OF TRANSPORTATION

NOTICE OF PROPOSED AMENDMENTS

þe JCAR requests, comments and concerns regarding this rulemaking should addressed to:

Christine Caronna-Beard, Rules Manager Illinois Department of Transportation 2300 South Dirksen Parkway, Room 300 Springfield, IL 62764 (217) 782-3215 Comments received within 45 days after the date of publication of this $Illinois\ Register\ will\ be\ considered.$ Comments received after that time will be considered, time permitting.

- Initial Regulatory Flexibility Analysis: 12)
- Types of small businesses affected: This Part affects small businesses that either purchase or manufacture school buses for use in businesses affected: small οĘ Illinois. Types A)
- Reporting, bookkeeping or other procedures required for compliance: No additional procedures are necessary for compliance. B)
- No additional Types of professional skills necessary for compliance: skills are necessary for compliance with this Part. ô
- Regulatory Agenda on which this rulemaking was summarized: July 1997 13)

The full text of the Proposed Amendment(s) begins on the next page:

NOTICE OF PROPOSED AMENDMENTS

SUBCHAPTER e: TRAFFIC SAFETY (EXCEPT HAZARDOUS MATERIALS) CHAPTER I: DEPARTMENT OF TRANSPORTATION TITLE 92: TRANSPORTATION

MINIMUM SAFETY STANDARDS FOR CONSTRUCTION OF TYPE I SCHOOL BUSES PART 440

SUBPART A: INTRODUCTION

Responsibilities Guidelines Order Section 440.20 440.10

GENERAL SUBPART B:

Quantified Requirements Effective Date Applicability Purpose Scope 440.140 440.120 440.130 Section 440.110

DEFINITIONS SUBPART C:

Federal Definitions State Definitions Dictionary Used 440.205 440.210 440.220 Section

CERTIFICATION SUBPART D:

Certification by Manufacturer Federal Standards State Standards 440.310 140.320 Section 440.305

BODY REQUIREMENTS ы Ы SUBPART

Incorporation by Reference of Federal Motor Vehicle Safety Standards Conformance to the Requirements State Requirements Section 440.405 440.410 440.420

CHASSIS REQUIREMENTS SUBPART F:

Section

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DEPARTMENT OF TRANSPORTATION

NOTICE OF PROPOSED AMENDMENTS

Incorporation by Reference of Federal Motor Vehicle Safety Standards Federal Motor Vehicle Safety Standards (FMVSS) and Related Specification Sheet Reflective Material -- Encapsulated Lens First Aid Kit Requirements (Referred to in Section 440.420(k)) (Based on FHWA Notice N 5040.17, June 15, 1976) (Repealed) Hexagon Shaped Stop Signal Arm (Repealed) Octagon Shaped Stop Signal Arm Panel Conformance to the Requirements Regulations (Repealed) Federal-Requirements State Requirements (Repealed) В ILLUSTRATION A ILLUSTRATION APPENDIX A В APPENDIX C APPENDIX 440.505 440.510 440.520

Section ρλ AUTHORITY: Implementing Article VIII of Chapter 12 and authorized 12-812 of the Illinois Vehicle Code [625 ILCS 5/Ch. 12, Art. VIII].

effective March 2, 1993; amended at 18 Ill. Reg. 14764, effective SOURCE: Filed June 20, 1977; amended at 6 Ill. Reg. 7147, effective June 2, 1982; codified at 8 Ill. Reg. 15502; amended at 11 Ill. Reg. 15947, effective September 21, 1987; amended at 12 111. Reg. 8463, effective May 3, 1988; effective amended at 16 Ill. Reg. 1655, effective January 14, 1992; amended at Reg. September 20, 1994; amended at 22 Ill. Reg. 3530,

letters are denoted by this Part, superscript numbers or parentheses; subscript are denoted by brackets. п

SUBPART A: INTRODUCTION

Section 440.20 Guidelines

The-Division-of-graffic-Safety-manual-entitied-fillinois-Minimum-Safety
Standards-for-Construction-of-School-Buses-is-designated-as-Subparts-B through-F-

bt -- This Part Manual provides:

of the Illinois [625 ILCS 5], the applicability of the standards to standards and the a)+) General information on the appropriate portions public and private agencies, the purpose of the scope of the standards. Code Vehicle

b)2) Definitions of terms used in this Part the-regulations.

2)37 Requirements for manufacturer's certification related to federal and State standards.

d)47 Federal and State standards applicable to the bodies of school buses. school of chassis the applicable to e)5+ Federal and State standards

effective Reg. I11. 22 at (Source: Amended

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SUBPART B: GENERAL

Section 440.140 Effective Date

a>--These standards become effective July 1, 1977, on each incomplete vehicle manufactured on or after April 1, 1977, and on each component either assembled to or altered on such incomplete vehicle so as to construct a school bus; provided, however, a new school bus constructed of an incomplete vehicle manufactured before April 1, 1977, may not be sold or used in Illinois if its final stage of manufacture is completed after October 1, 1977.

 (Source: Amended at 22 Ill. Reg. _____, effective

SUBPART C: DEFINITIONS

Section 440.210 Federal Definitions

Terms are used as defined in 49 CFR 567, 568, or 571. In-the-federal-rules-and standards terms-are-used-as-defined-(directly-or-by-reference)--in--Part--5677

Part--5607--or--Part-571-of-Title-49-in-the-Gode-of-Federal-Regulations-(49-GPR 5677-5607-or-571---see-Appendix-A)-

(Source: Amended at 22 Ill. Reg. _____, effective

Section 440.220 State Definitions

The terms referred to in Section 440.210 are applicable to this Section unless any definitions are displaced either by a statutory definition in 625 ILCS 5/1 or. by a definition found below. In-the-State-requirements-and-standards-terms are displaced defined-under-Settion-440-2107-abovey-except-where-sueh-definition to a statutory --meaning-defined-in-definition terms for the found below as the found of t

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"ANSI" means the American National Standards Institute (1430 Broadway, New York, N.Y. 10018).

"Body" means the portion of a bus that encloses the occupant and cargo spaces and separates those spaces from the chassis frame, engine compartment, driveline, and other chassis components, except certain chassis controls used by the driver.

"Body-on-Chassis" bus means a completed vehicle consisting of a passenger seating body mounted on a truck type chassis (or other separate chassis) so that the body and chassis are separate entities, although one may reinforce or brace the other.

"The Code" - means the Illinois Vehicle Code [625 ILCS 5].

"Driver" means (#WG-eh;-95- \pm /2-par;-1- \pm 16);--"Every person who drives or is in actual physical control of a vehicle". [625 ILCS 5/1-116]

"Empty Weight" means the "unloaded vehicle weight"; i.e., the weight of a vehicle with maximum capacity of all fluids necessary for operation of the vehicle but without cargo or occupant (49 CFR 571.3), plus $29\theta\theta N$ (350 450 1bs 1b) allowance for driver and equipment.

"FMVSS" means the Rules and Standard(s) set forth in Part 571 in Title 49 of the Code of Federal Regulations (49 CFR 571) and known as "Federal Motor Vehicle Safety Standards."

"Forward Control" means a configuration in which more than half of the engine length is rearward of the foremost point of the windshield base and the steering wheel hub is in the forward quarter of the vehicle length (49 CFR 571.3)--includes mid-engine and rear-engine ("pusher")

"Gross Vehicle Weight Rating" or (GVWR) means the value specified by the manufacturer as the loaded weight of the school bus. (See $625\ \overline{\text{LLCS}}$ 5/12-800.)

"Incomplete Vehicle" means an assemblage consisting, as a minimum, of frame and chassis structure, power train, steering system, suspension system, and braking system, to the extent that those systems are to be part of the completed vehicle, that requires further manufacturing operations (other than the addition of readily attachable components such as mirrors or tire and rim assemblies or minor finishing operations, such as painting) to become a completed school bus for use in Illinois. (Based on 49 CFR 568.3).

"Integral Type" bus means a completed vehicle either without separate body and chassis or with body and chassis joined into one unit.

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#IVC# means-the-State-statutes-set-forth-in-Chapter-95--1/27--Illinois Revised-Statutesy-and-known-as-The-Illinois-Vehicle-Code-

"m", following a numeral, means either "meter" or "meters".

"mm", following a numeral, means either "millimeter" or "millimeters".

"Manufacturer" (unless otherwise indicated at the point of use) means the person or organization whose name follows "MANUFACTURED BY" or "MFD BY" on the label required in Section 440.310 τ -betow.

"Multiple Glazed Unit" means two or more sheets of safety glazing material separated by air space(s) and assembled in a common mounting (ANSI 226.1-1966).

MNu,--following--a--numeraly--means--either-unewton"-(1-kg-x-m/sec)-or
unewtons"/-the--SI--(metric)--unit--of--force--and--weight--(force--of
gravity)-----forse-standards-an-objectis-SI-weight-(N)-equals-its
mass-(kg)-muitiplied-by-the-standard-acceleration--of--free--fally--or
ugravity"--(9.886--658-meters-per-second-squaredy-often-rounded-to-9-8
mysec-for-estimates)-

wnew-School-Busw-or-wnew-Eype-I-School-Busw-means-a-school-bus-that-is

"Passenger" means every bus occupant who is not the driver.

"SAE" means the Society of Automotive Engineers (400 Commonwealth Drive, Warrendale, Pennsylvania 15096).

"School Bus" -

Type I School Bus - A School Bus with gross vehicle weight rating of more than 10,000 pounds.

Type II School Bus - A School Bus with gross vehicle weight rating of 10,000 pounds or less. [625 ILCS 5/12-800]

Every motor vehicle, except as provided below, owned or operated by or for any of the following entities for the transportation of persons regularly enrolled as students in grade 12 or below in connection with any activity of such entity:

Any public or private primary or secondary school;

Any primary or secondary school operated by a religious institution; or

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Any public, private or religious nursery school.

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This definition shall not include the following:

A bus operated by a public utility, municipal corporation or common carrier authorized to conduct local or interurban transportation of passengers when such bus is not traveling a specific school bus route but is:

On a regularly scheduled route for the transportation of other fare paying passengers;

Furnishing charter service for the transportation of groups on field trips or other special trips or in connection with other special events; or

Being used for shuttle service between attendance centers or other educational facilities.

A motor vehicle of the first division.

A motor vehicle designed for the transportation of not less than 7 nor more than 16 persons that is operated by or for a vublic or private primary or secondary school, including any rimary or secondary school operated by a religious institution, for the purpose of transporting not more than 15 students to and from interscholastic athletic or other interscholastic or school sponsored activities. [625 ILCS 5/1-182]

"Sehool-Bus"-means-(IVE-Sec--l-182);

fa) :-:--every-motor-vehiele;-exeept-as-provided-in--paragraph--(b); owned-or-operated-by-or-for-any-of-the-following-entities-for-the transportation--of-persons-in-connection-with-any-activity-of-the entity:--a-school-operated-by-a-religious-institution-or-a-public or-private-nursory;-primary-or-secondary-school-:-; or-parental

{b} This-definition-does-not-include-the-following:

(i) A-bus-operated-by-a-public-utility-municipal-corporation-or common-carrier-authorsed-co-conduct-incel-in

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- (2) A-motor-vehiele----- designed-for-carrying--not--more--than nine--passengers--which--is--not--registered-as-a-school-bus under-Section-3-808,
 - (3) A-religious-organization-bus-as-defined-in-See--1-171-01-

"SI" means "Systeme International d'Unites" (International System of Units); officially abbreviated SI in all languages; the "modernized metric system" defined in ANSI 2210.1-1973 and described in ANSI SR-10 (circa 1970).

The symbol ", following a numeral, means either "inch" or "inches".

 $^{\mu}$ Type-i-School-Bus^n-means-a-school-bus-with--a--gross--vehicle--weight rating-of-more-than-10,000-pounds-

 $^{\mu}Type^{--\pm i \cdot x}-Schoot^{--}Bus^{--}means^{-}achoot^{-}bus^{-}w^{\pm}th^{-}a^{-}gross^{-}veh^{\pm}c^{\pm}e^{-}ve^{\pm}gh^{\pm}$ rating-of- $^{\pm}\theta^{+}\theta\theta^{+}pounds^{-}or^{-}tess^{-}$

(Source: Amended at 22 III. Reg. _____, effective

SUBPART D: CERTIFICATION

Section 440.305 Certification by Manufacturer

The manufacturer shall certify the bus conforms to the applicable federal and State standards in effect on the first day of the month shown in the statement, "This Vehicle Conforms To All Applicable Federal Motor Vehicle Safety Standards In Effect in (month, year)" on the label required under Section 440.310. The manufacturer must also certify that the bus conforms to all applicable State standards only. The creatification and the second section 440.3207-below). The certification shall be present in the bus when delivered to the purchaser as well as when submitted to the first safety test conducted under provisions of Section 13-109 of the Code [625 ILCS 5/13-109] 19-191-TWC.

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SUBPART E: BODY REQUIREMENTS

Section 440.405 Conformance to the Requirements

At the time of the first safety test conducted under provisions of Section 13-109 of the Code [625 ILCS 5/13-109] 19-1017-IVE, and when delivered to the purchaser, the body of each Type I School Bus shall conform to the requirements stated or referred to in this Subpart. Some chassis requirements also applicable to the body are stated or referred to herein.

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Section 440.410 Incorporation by Reference of Federal Motor Vehicle Safety Standards

Each bus body must conform to the applicable provisions of the Federal Motor Vehicle Safety Standards (FMVSS) (49 CFR 571.101 through 571.304 574:100 through-571.304). Those applicable provisions of the FWVSS are incorporated by reference as that Subpart of the FWVSS was in effect on October 1, 199719927-as amended—at—57-FR-494197-November—27-19927-as-amended—at—57-FR-494197-November—27-19927-as-amended—at—57-FR-570007-becember 27-19927-mad-as-amended—at—598977--May—47-1994. No later amendments to or editions of 49 CFR 571.101 through 571.304 571:100-through-571-302 are incorporated.

(Source: Amended at 22 Ill. Reg. , effective

Section 440.420 State Requirements

hazard--to--a-pedestrian. Each bus body shall be constructed so as to preclude a school bus shall not exceed 2.44 m (8 feet) in width, 4.12 m (13 feet 6 inches) in height, nor 12.81 m (42 feet) in length (###:-Rev:-Stat:-1994;-ch: 95-1/27-pars--15-102, 15-103--and--15-107} [625 ILCS 5/15-102, 15-103 and 15-107]. However, -- a--new--bus--will-not-be-considered-in-nonconformance-with these-standards-and-will-not-be-rejected-in-a-wsafety-test-because-one-or-more signat;--clearance;--parking;--or--driving---lamps;--mirror--frames--or--supports; other-safety-devices-extend-beyond-the-above--stated--limits--as--necessary--to present-a-msnagging",-sharp,-or--abrupt--surface--constituting--an--unwarranted road splash, road dust, or the bus engine's fumes or gas entering either the driver, passenger, or service entrance space through any joint, crack, hole, or opening other than an opened door or window. In addition, various portions of the bus body shall conform to the requirements set forth under the following for mirrors, which may project 153 mm (6") beyond each side of the bus, bumpers,--rub--raits,--ftexible--portions-of-fender-skirts-or-splash-guards,-or perform--their--safety--function--properly;--provided;--such-extension-does-not subsections.

aisle meets the dimension requirements set forth in this subsection from front of bus to back of bus) and free of tripping hazards ("tripping hazards" are tears, wrinkles and other imperfections in the floor covering material, or the floor itself causing the walking surface to be uneven), shall extend from the forward edge of the service entrance stairway to the emergency door in the rear of the bus or, when such door is absent, to the forward edge of the rearmost seat. This aisle shall be no less than 305 mm (12") wide at every location between floor covering and the top of each seat cushion and, in a bus manufactured in July 1987 or later, shall be no less than 380

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mm (15") wide at and above a level 50 mm (2") below the top of any seat back on-a-non-handicapped-student-s-seat. At least 1.75m (68.9") floor-to-ceiling height shall be provided above the entire required width of this aisle between the forward edge of the rearmost seat and the forward edge of the service entrance stairway. A dedicated aisle which conforms to 49 CFR 571.217 (as-amended-at-57-FR-494137-November 27-1992-and-as-amended at-59-FR--229977--May-47-1994) may be adjacent to any side emergency door.

 b) Battery. Either one battery or two or more suitably connected batteries may be installed.

1) When rated in conformance with SAE Standard J537h the battery(s) shall provide a current flow for engine cranking no less than the engine manufacturer's recommended Cold Cranking Current (amperes for 30 seconds) at -18° C (0° F) or, at the purchaser's option, at -29° C (-20° F).

2) When rated in conformance with SAE Standard J537h the battery(s) shall provide a Reserve Capacity (duration of 25 ampere current flow) at 27° C (80° F) no less than 135 minutes.

Agency Note: If the purchaser needs to provide for extended cold weather bus operation immediately after malfunction or failure of the battery charging equipment he should specify battery reserve capacity, and temperature, commensurate with the temperature and duration of extended operation needed.

compartment it shall be attached securely in a closed, weather-tight, and vented compartment that is located and arranged so as to provide for convenient routine servicing. The battery compartment door, or cover, shall be secured by an adequate manually operated latch(es) or other fastener(s). Each electrical cable connecting the battery(s) in this carrier to the body or chassis shall be one-piece between the battery terminal connector and the first body or chassis terminal

Gonnector.

Bumper, Rear. The rear bumper shall be of channel type cross section with the top edge at least 225 mm (8.9") above the bottom edge, shall be formed from rolled steel at least 4.55 mm (.18") thick, and shall wrap around the rear corners of the body to a point at least 300 mm (11.8") forward of the rearmost point of the body at floor line. The rear bumper shall be attached to the chassis frame with provisions for removal by means of commonly available hand tools and the prevention of hitching-to or riding thereon. The rear bumper shall be of sufficient strength to permit the bus being pushed by another vehicle without permanent distortion.

e) Capacity, Passenger. The vehicle maximum passenger capacity recommended by the manufacturer of the bus shall be based upon a provision for 13 inches of seating space for each passenger, exclusive of the driver. [625 ILCS 5/12-802] The rated-passenger-eapacity-of-the bus-shall-be-the-same-as-the-number-of-380-mm-(1344-wide-protected).

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eonvalescent;—or-handieapped-passenger-seating-spaces-either-installed or-provided-for-in-the-bus (iili-Rev;—Stat;—1989;—ch;—-95-1/2;—par;—12-082;— Examples: A seat 990 mm (39") in width provides 3 passenger spaces; A seat 985 mm (38.8") in width provides 2 passenger spaces; A device resembling a seat but less than 330 mm (13") in width would not provide a passenger space. Neither a space not conforming to FWVSS 222 nor the driver's space shall be counted as a passenger space. However, except-that any suitable space used for transporting an orthoredically challenged a—convalescent—or—handicapped passenger space capacity to be displayed on the exterior of the bus as required in subsection (t)(7).

f) Certificate and Registration Card Holder. At least 1 card holder with a transparent face no less than 150 mm by 100 mm (5.9" by 3.9") shall be securely affixed to the interior inside header panel out of the students' easy reach.

Golor and Paint, Exterior. The exterior of each school bus shall be national school bus glossy yellow except as indicated in subsections (g)(1)-(6): Except-where-otherwise-specified, or-ailowed, the exterior of the bus-shall-be-National-School-Bus-Chrome-Yellow-(Federal Standard-No:-595a, glossy-chrome-yellow-enamel-No:-13432).

1) The rooftop may be white. A white roof may extend only to within six inches above the drip rails on the sides of the body. The first and rear roof caps shall remain national school bus glossy mothers.

2) Body trim, rub rails, lettering other than on a stop signal arm and bumpers shall be glossy black (Federal Standard No. 595a, glossy black enamel No. 170381).

3) Letterin on a stop signal arm shall be white on a red

background.

4) The hood and upper cowl may be lusterless black (595a, 37038) or

1) inc. noou and upper cowi may be insceriess black (595a, 5/03 lusterless school bus yellow.

5) Grilles on the front, lamp trim and hubcaps may be a bright finish.

6) The name or emblem of a manufacturer may be colorless or any color.

7) The exterior paint of any school bus shall match the central value, hue and chroma set forth in this Part. [625 ILCS 5/12-801]

8) Yellow retroreflective tape required by 49 CFR 517.217 can be located on the rear bumper provided the space between the top of the bumper and the bottom of the door is not adequate to accommodate the tape.

AGENCY NOTE: To be certain of glare reduction, a purchaser should specify a lusterless paint.

h) Crossing Control Arm:

1) Required on school buses manufactured after December 31, 1997. [625 ILCS 5/12-807.2] (added by P.A. 90-108, effective July 14, 1997)

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- Must meet or exceed SAE J1133.
- Must be capable of full operation between, and including, the temperatures -40 degrees F and 160 degrees F. 35
 - The arm, when activated, must extend a minimum of five feet the front face of the bumper. 4
- The arm must be mounted on the far right side (entry side) of the 3
 - Appropriate brackets shall be used to attach the arm to the front 9
 - All component parts must meet or exceed any applicable federal notor vehicle safety standards in effect bummer for proper operation and storage. 7
- The arm must extend at the same time the stop arm panel extends. An independent "on/off" switch is prohibited. 쬢
- optional override switch, the arm sequence must automatically If the driver can stop the arm from extending with the use of reset once the service door is closed. 6
 - Red lights and/or red reflectors are prohibited (see 625 ILCS 5/12-807.2, added by P.A. 90-108, effective July 14, 1997). 10)
- Bumpers,--wheels,--rub--rails,--and--body-trim-{if-used}-shall-be black--{Federal--Standard--No---595a,--glossy--black--enamel--No-1703017-1 +
 - Hood-top--may--be--either--lusterless--black,--(595a,--37030)--or lusterless-chrome-yellow-5
 - should-specify-a-lusterless-paint-
- Cowl-top-may-be-same-finish-as-hood-top-
- Hub-caps-{if-supplied}-and-those-grilles-loeated-forward--of--the engine--may-be-a-bright-or-light-finish-such-as-chrome,-aluminum, white, ete. 44
- door clear of fog or frost. This defrosting equipment shall conform help keep the window to the left of the driver and the glass in the service to those FMVSS 103 (49 CFR 571.103) performance requirements that are i)ht Defrosters. Defrosting equipment shall be installed so as to applicable to school bus windshields.
- 1)++ Emergency Exits. All emergency exits shall conform to the applicable requirements of FMVSS 217 (49 CFR 571.217) The-following-requirements apply-to-emergency-exit-doors-and-emergency-exit-windows.
 - Each opening for a required emergency exit must be outlined around its exterior perimeter with, at a minimum, 1 inch (2.54 retroreflective tape must be on the exterior surface of the bus and conform to all requirements of 49 CFR 571.217. tape. retroreflective yellow a
 - when Both audible and visible alarms shall alert the driver engine is running and any emergency exit door either: 7
 - Is not fully latched, or B)
- audible alarm shall alert the driver when the engine is Is locked and not readily operated manually. લ

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running and any emergency exit window either:

- Is locked and not readily operated manually. A) Is not fully latched, or
- "Locked" means that the release door or window (optional or required) is locked from either cannot be activated and the exit cannot be opened by The enjine starting system shall not operate while any erson at the exit without a special device such as inside or outside the bus. exit 4
 - An alarm cut-off or "squelch" control is prohibited. special information such as a combination.
- Exception: No alarm is required for roof hatches. £
- length-and-15-mm-{-6-6"}--in--widthy--showing--the--direction--each outside--emergeney-exit-release--meehanism-is-to-be-moved-to-open the-emergency-exity-shall-be-painted-or--permanently--affixed--on A--blaek--arrow,--eurved--or--straight,-at-least-150-mm-{5.94.}-in the--outside--yellow--portion--of-the-bus-within-150-mm-(5-94)-of each-release-mechanism.
- painted--or--permanently--affixed--inside--the--bus-within-150-mm (5.94)-of-each-emergeney-exit--release--mechanism:---Bach--inside arrow--shall--eontrast--with--its--background-and,-where-suitable An-arrow-showing-the-direction-each-inside-emergency-exit-release meehanism-is-to-be-moved-to-open--the--emergency--exit--shall--be space-is-limited;-may-be-smaller-than-the--outside--arrow(s)--but must-be-conspicuous. 33
- the-driver-when-the-engine-is-running-and-an--emergeney--exit--is toeked--and--cannot-be-opened-quiekly-and-solely-by-operating-the aeeordanee-with-the-arrow(s)-and-instruetion-provided-adjacent-to An--audibie--and-visibie-alarm-shali-be-provided-which-will-alert inside--or--ortside--emergeney--exit--release---meehanism(s)the-release-meehanism(s). 4
- An--audible--and-visible-alarm-shall-be-provided-which-will-alert the-driver-when-the-engine-is-running--and--either--an--emergency exit-windowy-located-within-460-mm-{l0:lu}-of-the-seating-surface of-a-bassenger-seat;-or-an-emergeney-ex÷t-door-is-released;-i-e-; "unlatehed". 44
- An--alarm-diseonneet,--usqueleh-eontrolu,-or-other-alarm-defeating or-attentuating-device-shall-not-be-installed: 54
- perimeter--with--a--minimum--i--ineh--(2.54---em}---wide---yellow retrorefleetive--tape----This-yellow-retroreflective-tape-must-be on--the--exterior--surface--of--the--bus--and--conform---to---all requirements--of--49--6FR--571-217--{as--amended--at-57-FR-494137 Por-buses-manufaetured-on-or-after-May-27-19947-eaeh-opening--for a--required--emergeney--exit--must-be-outlined-around-its-outside November-27-1992-and-as-amended-at--57--PR--570207--Becember--27 6
- k)j→ Fire extinguisher.
- Agency Note: At least one fire extinguisher must be carried in each school bus transporting pupils but the purchaser may elect to install

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extinguisher which conforms to the requirements below after the bus

gauge, mounted in a quick-release bracket of automotive type located in view of and readily accessible to the driver, except when carried Laboratories, Inc., with a rating not less than 10-BC. The operating mechanism shall be sealed with a type of seal that will not interfere The fire extinguisher shall be of the dry chemical type, with pressure in the locked compartment authorized under subsection (u) (t) below. with the use of the fire extinguisher. Halon fire extinguishers (10 The fire extinguisher shall be of a type approved by the Underwriters' BC) are approved.

1)ky First-Aid Kit.

transporting pupils but the owner may elect to install a kit which AGENCY NOTE: A first aid kit must be carried in each school bus conforms to this subsection after the bus is purchased.

- 1) The first aid kit must be readily identifiable and readily substantially constructed of durable material. If the kit is not carried in the locked compartment as authorized in subsection accessible to the driver. The kit must be dust tight and (u)(2) +k++2+, it must be in view of the driver.
 - The first aid kit must include, but is not limited to, the following: 2)
- A) 4" bandage compress 2 packages
- 2" bandage compress 2 packages B)
- 1" bandage or adhesive compress 1 package Û
- 40" triangle bandage with two safety pins 1 (i)
 - Splint, wire or wood 1
- or other of ointment, antiseptic tourniquet or any type medicine cannot be included. m++ Floor Covering. 3)
- temperature change and shall be bonded securely to the floor with not crack when subjected to sudden 1) All portions of the floor that come in contact with passengers' or driver's footwear shall be covered with a waterproof material. a waterproof substance. All seams and openings shall be filled covering shall with a waterproof sealer. This floor
- οĘ The floor covering in the aisles and entrance area shall be rtbbedr non-skid, wear-resistance type material commonly used commercial passenger transportation vehicles. 2)

n)m+ Fuel System.

or-hose-either-is-located-wholly-inboard-the-left-of-the-chassis-frame (or-equivalent-structural-member)-or-is-installed-in-a-bus--conforming to--S6:27--S6:37--and-S6:4-in-PMVSS-301-75-(49-CPR-571:301-75);--A-bus The fuel system shall conform to all applicable provisions of FMVSS may-be-installed-within-300-mm-{ll-00-ph-of-the-left-exterior-surface-of with-GVWR-10,000-pounds,-or-less,-constructed-of-an-incomplete-vehicle 301 (49 CFR 301). Neither-a-fuel-tank-nor-a-fuel-tube; pipe; or--hose;

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manufactured-before-September-17-1977,-shall-be-deemed-not--conforming to--S6:2;--S6:3;--and--S6:4--in-PMVSS-301-75-unless-the-label-required under-Section-440.3107-states-the-bus-(vehicle)-conforms-to--FMVSS--in effect--September-1977-(9/77)-or-the-manufacturer-furnishes-a-separate certification-which-states-the-bus-conforms-to-S6.2,-S6.3,-and-S6.4-in PMVSS--301-75.--This-separate--certification--shall--be--lettered--and affixed--in--the--same--manner--and--location-as-the-label-required-in Section-440-320-

o)m> Glazing Materials.

1) The following applies to glazing on Type I school buses:

All applicable provisions of FMVSS 205 (49 CFR 205) apply to the pertinent tests indicated below, which are specified in ANSI Standard 226.1-1966 (R 1973), 226.1a-1969, and are grouped in Table No. 1 of that Standard. Glazing shall be Laminated safety glass is optional on Type I school buses. the optional laminated safety glass and also to any plastic material(s) used in multiple-glazed unit, including meeting identified as shown below.

of Shall bear one identification the following markings: Table No. 1 under: Shall meet tests grouped in 226.1 Glazing installed

AS 1 Glass; 1, either laminated glass or multiple glazed Item Windshield

unit;

or AS 2 Glass; AS 1 Glass, forward of rearmost location of Window or door

driver's seat back

Or Or AS 1 Glass, AS 2 Glass, All Other locations

B) In addition, any exposed plastic layer of a multiple glazed unit shall be identified in conformance with FMVSS 205 (49 CFR 571.205).

AS 3 Glass.

All glazing shall be installed so the identification markings are legible. 2)

plot Heaters.

not less than 10 degrees Celsius (50 degrees 4 F) shall be maintained throughout the bus while the bus is moving at 75 kilometers per hour (46.6 miles per in calm air at the average minimum January temperature, as established by the Weather Bureau, U.S. Department of Commerce, temperature of inside An interior hour) 1)

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tested as recommended in SAE Recommended Practice J638, or when ode. The recommended practice, standard, or code under which the heater is rated shall be identified on the nameplate. Such manufacturer that the heater performance is as shown on the Each heater shall bear a nameplate which shall identify the rating when tested in accordance with other nationally recognized standard or heater manufacturer and state the heater capacity рy for the area in which the bus is to be operated. constitute certification nameplate shall plate. 5)

operation of any engine function (such as an emission or ignition vibration. The hoses shall not dangle or rub against the chassis or sharp edges and shall neither interfere with nor restrict the control mechanism). Heater hoses shall be protected or baffled between the point at which they enter the passenger compartment and the point of attachment to the heater so that, in the event of hose rupture or disconnection, passengers and/or driver will prevent wear to Heater hoses shall be supported so as not be subject to hot water burns. 3

with any engine function whether closed, partially open, or fully the engine shall include a shutoff valve located as close to the engine as practical. Such connection and valve shall not interfere 9)P) Heater Hose Connections at Engine. Each heater hose connection open, with heater hoses installed properly.

rlq+ Interior.

ceiling and the sides of the body to reduce heat transfer and the Thermal and acoustic material(s) shall be installed in interior noise level. 7

shall be free of any visible or concealed projections likely to cause injury. Exposed lapped joints shall be connected and/or Materials or components in the passenger compartment <u>located</u> treated to reduce likelihood of injury from exposed edges. within 59 inches from the floor shall be free of any sharp corner The passenger compartment of the bus, including the ceiling, or projections or shall be padded so as to make injury unlikely. 5)

Por-informational-purposes,-pertinent-requirements-established-by certain-statutes-and-rules-follow-++

Lamps and Signals.

s) r

- Whenever-a--sehool--bus--is--operated--for--the--purpose--of стапэротетид--раззелдетз--осћет--сћал--ретзолз-тл-солнесетол with-an-activity-of-the--sehool--er-religious--erganisation which--owns--the--school--bus-or-for-which-the-school-bus-is Operated,-the-----signal-arm-and--flashing--signal--system shall--not--be--operable--through-normal-controls- [625-Ibes 5/12-8961
- The-following-applies-to-stop-arm-panels-on--Type--I--school busest 中田
 - The--stop-signal-arm----shall-be-extended-after-the ÷

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зейоо≟-bиз-йаз-соме-tо-а-сомр≟еtе-зtор-£ол-the-purpose of-loading-or-discharging-pupils-and-shall-be--elosed before--starting-out-again---The-stop-signal-arm-shall not-be-extended-at-any-other-time;

- be-aetuated--after--the--sehool--bus--has--eome--to--a The-alternately-flashing-red-signal-lamps-----shall eompłete---stop---for---the---purpose--of--łoadżng--or diseharging-pupils-and--shall--be--turned--off--before starting-out-again---The-red-signal-lamps-shall-not-be aetuated-at-any-other-time-+++
- The--a≟ternate2y--flashing--amber--signal--lamps---shall--be--aetuated--continuously-during-not-less-than within-a-business-or-residential-district-and-during outside-a-business-or-residential-district---The-amber signai-lamps-shali-remain-aetuated-until-the--bus--is stopped---The-amber-signal-lamps-shall-not-be-aetuated еће-łазе-ł00-£ееt-travełed-by-the-bus-be£ore--stopping for--the--purpose--of--loading--or--discharging-pupils not--less--than--the-last-200-feet-traveled-by-the-bus at-any-other-time: {625-IDES-5/11-1414} 4444
- transportation-operations}-require-such-driver--to--stop--at The--driver--of--a--school--bus-carrying-any-school-child-is required-to-stop,--iisten,--and--iook--before--erossing--any railroad,-exeept-where-eertain-traffie-eontrols-are-presentf625---Ibes---5/li-l202j--However,--the--State-s--Rules--and Regulations-For-Operating-A-School-Bus-(which--are--enforced in----conjunction----with---State-aid---for---public---pupil railread--cressings-(no-exceptions),-open-door-to-the-right, listeny-and-look-in-both-directions-before-crossinget e
- with an eight θ lamp alternately flashing signal system that conforms to $\underline{S45.1.4.(b)}$ $S4\div1\div4\div(b)$ of FMVSS 108 (49 CFR 571.108) switch shall be provided for this signal system. When in its "off" position, this master switch shall prevent operation of the 1)27 Alternately Flashing Signal Lamps. Each bus shall be equipped eight 0 lamp system; shall prevent operation of any lamps mounted and shall prevent operation of any electrically controlled 8 lamp flashing signals, the stop so as to provide for the following sequence of operations while and 625 ILCS 5/12-805 provides-for-compliance-with-the-Illinois Statutes-quoted-above. A separate circuit breaker and a master on the stop signal arm panel required under subsection (hh) (ff); signal arm panel, and the service entrance door shall be arranged to extend. mechanism that would cause the stop signal arm panel The controls for the eight the engine is running:
- in its "off" position. Close and secure the service entrance door. Actuate the alternately flashing signal Place the alternately flashing signal system master switch The alternately flashing system hand or foot control.

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signal lamps of either yellow (amber) or red color shall not

- With the master switch "off" and the hand or foot control actuated, open the service door. The alternately flashing signals of either color shall not go on and the stop signal arm panel shall not extend. B)
- Close and secure the service door. Then open the service The alternately flashing signal lamps of either color Deactivate the hand or foot control. Place the alternately shall not go on and the stop signal arm panel shall not flashing signal system master switch in its "on" position. door. ô
- Close and secure the service door. Actuate the alternately the driver and the yellow flashing signal system by hand or foot control. alternately flashing signals shall go on. in the view of pilot lamp â
 - Desecure but do not open the service door. The yellow pilot red pilot lamp in the view of the driver and the red alternately flashing signals shall go on. The stop signal and the yellow alternately flashing signals shall go off. arm panel shall extend. (E)
- Fully open the service door. The red pilot and red signals shall remain on and the stop arm shall remain extended. (H
- Close but do not secure the service door. The red pilot and red signals shall remain on and the stop arm shall remain extended. 6
- Open the service door. The red pilot and red signals shall remain on and the stop arm shall remain extended. (H
- Close and secure the service door. The red pilot and red signals shall go off and the stop arm shall retract. (=
- of either color shall not go on and the stop arm shall not Alternately flashing signals Open the service door. extend. (b
- 2)37 Rear Turn Signals. Yellow turn signal lamps shall be mounted on below the rear window. The effective projected illuminated area of these turn signal lamps shall be no less than required for the the rear as far apart as practical and as high as practical but subsection (s)(1) (#)(2), above; i.e., .0122 m(2)(19in(2)). lamps yellow alternately flashing signal
- The effective projected illuminated area of these stop lamps flashing Red stop lamps shall be mounted on the rear as far apart as practical but closer to the vertical centerline of the bus than the rear turn signal lamps required under subsection (s)(2) (r)(3), and at the same height as those turn signal lamps. signal lamps required under subsection (s)(1) (r)(2); i.e., .0122 shall be no less than required for the red alternately 3)47 Stop Signals.
 - 4)57 Side Turn Signals. Two yellow side turn signal lamps conforming

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read as setting forth mandatory requirements. The lamps shall be under subsection $\underline{(bb)}$ (2). The right lamp shall be within 1 m (39.4") of the rear of the service entrance but, on a forward control bus, not forward of the front axle. The left lamp shall SAE Recommended Practice J914a, August 1973, shall be installed on each bus of more than 32 passenger seating capacity. Except as indicated below, this Recommended Practice shall be "armored" and mounted on the body between the rub rails required be approximately the same distance from the front bumper as the right lamp.

least two 2 interior illumination lamps shall be installed in a bus that provides 330 mm (13") of seating width for each of 33 or entrance steps (subsection (ee) (ee)(3)), the floor around the more passengers. At least the nosings of the service entrance steps and the floor around the stepwell shall be illuminated automatically by opening of the service door. No lamp shall be installed at or near the eye level of a pupil moving through the stepwell, the entire aisle, and each emergency door and emergency service entranceway to the aisle unless such lamp does not shine exit shall be illuminated by lamp(s) emitting a white light. 5)6) Interior Lighting. At least the white nosings of directly into the eye(s) of any such pupil.

t)s) Lettering.

- instead of paint. Signs, numbers, or letterings, other than those either required by statutes or required or permitted by General. Except where otherwise required or allowed, lettering on the exterior outside of the body shall be black against a national school bus glossy yellow National-School-Bus-Chrome All required letters and numerals shall conform to Series "B", or heavier series, of the Standard Alphabets for Highway Signs issued by the Federal Highway as to be visible to the outside. Interior inside lettering shall these standards shall not be affixed permanently on either the exterior outside of the bus or the interior inside-of glazing Decals may be Administration, Washington, D.C. 20591. contrast with its background. Fettow background.
 - The words "SCHOOL BUS" shall be displayed against a national glossy yellow National -- School -- Bus -- Chrome -- Yellow background as high as practical and approximately centered on the front and rear of the bus body, in letters at least 200 mm (8") or displayed on a sign firmly attached to or built into the body. The background of an illuminated sign shall approximate the national school bus glossy yellow National -- School -- Bus -- Chrome high. These words may be painted on or applied to the bus *ettow color as closely as feasible. school bus 2)
 - A school bus identification number, supplied by the purchaser, shall be displayed as high as practical on the front and rear of the bus in numerals not less than 100 mm (4") high. Such number 3)

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may be displayed on the sides of the bus as specified by the purchaser.

4)

Bither the owner's name or the school district number or both must be displayed on both sides of the bus at least four inches high, approximately centered and as high as practicable below the window line. (Section 12-802 of the Code) The lettering must be located on one line. The name-of-the-bus-owner-and/or the-entity (such as-school-authority) for which-the-bus-is-operated-shall-be displayed-on-the-right-and-left-sides-of-the-bodyr-approximately centered-and as-high-and-left-sides-of-the-bodyr-approximately letters-at-least-100-mm-(4*)-high.

5) The body and/or chassis manufacturer's name, emblem, or other identification may be displayed, colorless or in any color, on any unglazed surface of the bus so as not to be mistaken for the name required in subsection (t)(4) above Section—440-420(s)(4), and so as not to interfere with any required letters or numerals.

and so as not to interfere with any required letters or numerals.

The words "EMPTY WEIGHT", or the abbreviation "EMPTY WT.", or the letters "E.W.", followed by the empty weight of the bus (Section 440.220), stated in pounds, shall be displayed on the exterior cuttate of the body near the rear edge of the service entrance in numerals and letters at least 50 mm (2") high.

Examples: EMPTY WEIGHT 16,800 lb E.W. 16,800 lb

- 7) The word "CAPACITY", or the abbreviation "CAP.", and the rated passenger capacity (subsection (e) above) followed by the word "PASSENGERS", or the abbreviation "PASS.", shall be displayed on the exterior outside of the body near the rear edge of the service entranceway, and on the interior inside above the right portion of the windshield, in numerals and letters at least 50 mm (2") high.
 - 4) The words "NO STANDEES" shall be displayed only on the interior inside above the windshield, approximately opposite the aisle but to the right of the mirror and sun visor, in letters at least 50 mm (2") high.
- They may be displayed, on a separate colorless background (such The words "EMERGENCY DOOR" or "EMERGENCY EXIT" in letters at be displayed on the interior and "EMERGENCY DOOR" must be displayed at the top of, or directly above, any emergency exit "EMERGENCY EXIT" must be displayed at the top of, or directly above, or at the bottom of, any emergency exit window. as white, aluminum, or silver) that extends no more than 15 mm (.6") above or below the words and no more than 25 mm (1") to the right or left of the words. The-words-"NO-STANBEES"-and/or-the capacity-(subsection(s)(7))-may-be-so--displayed--on--the--inside exterior of 7-inside-or-outside the bus. cm high must may least 5 door. enty-6
- 10) A black arrow, curved or straight, at least 150 mm (5.9") in

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length and 15 mm (.6") in width, showing the direction each exterior emergency exit release mechanism is to be moved to open the emergency exit, shall be painted or permanently affixed on the exterior yellow portion of the bus within 150 mm (5.9") of each release mechanism.

11) An arrow showing the direction each interior emergency exit release mechanism is to be moved to open the emergency exit shall be painted or permanently affixed on the interior of the bus within 150 mm (5.9") of each emergency exit release mechanism. Each interior arrow shall contrast with its background and, where suitable stace is limited, may be smaller than the exterior arrow(s) but must be conspicuous.

12) Alternate Fuel

A) If the bus uses alternate fuel (e.g., propane, CNG), the vehicle must be marked with an identifying decal. Such decal shall be diamond shaped with white or silver scotchlite letters one inch in height and a stroke of the brush at least 1/4 inch wide on a black background with a white or silver scotchlite border bearing either the words or letters:

"PROPANE" = If propelled by liquefied petroleum gas other than liquefied natural gas, or

"CNG" = If propelled by compressed natural gas. The sign or decal shall be maintained in good legible condition.

- B) The alternate fuel decal shall be displayed near the rear bumper and visible from the rear of the vehicle. (Section 12-704.3 of the Code)
 - 13) For buses manufactured after December 31, 1998, the vehicle's length (rounded up to nearest whole foot) must be displayed on the interior bulkhead clearly within the driver's view. (For example: vehicle length of 39.1 feet will be displayed as 40 feet.)
- 14) A "Stop Line" in contrasting color is required between 5.9 and 6.1 inches below the top of each side window opening. The line shall be located between each window that slides downward.
 - u)t) Locked Compartment (Optional). If specified by the purchaser, a lockable compartment may be installed for storage of fire extinguisher, first-aid kit, warning devices, wheel chocks, or other items.
- 1) The compartment locking device shall be connected with an automatic audible and visible alarm that will alert the driver when the engine is running and the compartment is locked. No alarm disconnect, "squelch control", or other alarm defeating mechanism shall be installed.

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- A red cross, formed of <u>five</u> 5 equal squares, and the words "FIRST-AID KIT" shall be displayed on the compartment door, or cover, if the first-aid kit is to be carried in the locked compartment.
- 3) The words "FIRE EXTINGUISHER" shall be displayed on the compartment door, or cover, if the fire extinguisher is to be carried in the locked compartment.
- v)u) Metal Treatment.
- 1) Unless excluded below, all steel or iron used in construction of the bus body and attached equipment shall be either resistant to atmospheric corrosion, or zinc coated, or treated by equivalent process. Particular attention shall be given to each fastener or attaching device, lapped surface, welded connection or fastening, closed or box section, and any unvented or undrained area or space. The number of unvented or undrained area or space. The number of unvented or undrained area or be minimized. Excluded are door handles, grab handles, and interior decorative parts.
- 2) As evidence that above requirements have been met, a sample of fastener, material, or section of body, coated or finished as installed in the bus, when subjected to a 1,000-hour salt spray test in accordance with Standard ANSI Z118.1-1974 "Method of Salt Spray (Fog) Testing" (ASTM B 117-73) shall not exhibit more than 10 percent reduction in weight after all adherent corrosion
- products are removed.

 w)v; Mirrors. Mirrors-located-inside-or-outside-the-bus-shall--be--firmly
 supported;--shall--be-adjustable;-and-shall-afford-the-seated-driver-a
 clear;-stable;-reflected-view;
- 1) All mirror systems shall conform to the applicable requirements of FWVSS 111 (49 CFR 571.111).
 - 2) More convex mirrors than required above may be installed, if specified by the purchaser.
- 3) The reflecting surface on the back of each mirror shall be protected from abrasion, scratching, and atmospheric corrosion.
 - th At--least--one-interior-mirror-shall-be-installed-so-as-to-afford the-seated-driver-a-view-of-the-bus-interior-as-well-as--portions of-the-roadway-to-the-rear-of-the-bus---The-mirror(s)-shall-be-of-c-tear--qlassy--shall-have-an-overall-reflecting-surface-at-least-150-mm-(5-9-4)-by-760-mm-(29-9-4)----and--shall-be-of-roaded-corners-and-padded-edgs-
- 2) An--outside-convex-mirror-shall-be-installed-on-the-right-side-so as-to-afford-the-seated-driver-a-reflected-view--of--the--roadway along--the--right--side--of--the--bus--from-at-least-the-rearmost surface-of-the-rear-bumper-to-at-least-the-forwardmost-surface-of the-right-front-tire---The--projected--reflecting--area--of--this convex-mirror-shall-be-no-less-than--020-m(2)-(4)-4-sq--in-)-
 - 3) An--outside--convex-mirror-shall-be-installed-on-the-left-side-so as-to-afford-the-seated-driver-a-reflected-view--of--the--roadway

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along-the-left-side-of-the-bus-from-at-least-the-rearmost-surface
of--the--rear--bumper--to-at-least-the-front-edge-of-the-driver-s
seat-rin-its-most-forward-positton-

4) If-any-seated-driver-of-a-forward-control-bus--does--not--have--a view--of--the-front-bumper-and-the-roadway-in-front-of-the-busy-a convex-mirror-shall-be-installed-so--as--to--afford--such--seated driver--ar--reflected--view-of-the-front-bumper-and-the-roadway-infront-of-the-busy-

AGENCY--NOTE:--FMV5S--111--requires---a---crossview---mirror---on meonventional*-school-buses-but-not-on-forward-control-buses:

- 5) More--convex--mirrors--than--required--above-may-be-installedy-if specified-by-the-purchaser.
- 6) Bach-convex-mirror-shall-be-mounted--so--as--not--to--reduce--the rectangular--reflecting--area--of--any--flat-outside-mirror-below :0929-m(2)-(50-sq.-in.-).
- 7) The-average-radius-of-eurvature-of-each-convex-mirror-shall-be-as long-as-practical, so-as-to-provide-for-the-required--or--desired view-with-as-little-distortion-as-feasible.
- 9) The--raflecting--surface--on--the--back--of--each-mirror-shall-be protected-from-abrasiony-seratchingy-and-atmospheric-corrosion:

 X)** Mounting of Body. This subsection does not apply to an integral type
- bus.

 1) After the date of manufacture of the incomplete vehicle the chassis frame shall not be altered so as to extend the wheelbase.

 Other extension(s) of the chassis frame may be accomplished only

final-stage

or

vehicle, intermediate,

manufacturer or by an agent

by the incomplete

of such manufacturer properly

- instructed and authorized by such manufacturer to make such extension(s).

 2) Insulating material shall be placed at all mounting points between the body and chassis frame. This material shall be at least 5 mm (.2") thick, may have the qualify of the sidewall of an automobile tire, and shall be so secured that it will not
 - move, vibrate, or "crawl" out of place during normal operations.

 3) The body front shall be attached and sealed to the chassis cowl
 so as to prevent the entry of water, dust, or fumes through the
 joint between the chassis cowl and the body.
 - y) Radio Noise. For buses manufactured after December 31, 1998, radio/stereo speakers must be located at least four feet behind the rearmost position of the driver's seat.

AGENCY NOTE: Two-way communication radios are allowed.

- z)*+ Rack, Book. Not permissible.
- aa)y} Reflectors__7-Pront; Fwo-yellow-famber}-reflectors-are--required--to be--installed--so--as-to-indicate-either-or-both-of-the-outer-edges-of the-bus-to-a-driver-approaching-the-front-of-the-unlighted-bus-between sunset-and-sunrise; {625-156S-5/12-202}
- 1) Front
- A) Two yellow rigid or sheet type (tape) front reflex

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reflectors shall be attached securely and as far forward as ocated between 15 and 60 inches above the roadway at either fender, cowl, or body and installed so as to mark the outer obscured by a lamp, of the required reflecting material may be more than 11.8 inches (300 mm) inboard of the outer edge of the nearest rub The reflector may be any shape (e.g., square, rectangle, circle, oval, etc.). A rigid type reflex reflector may be any size if permanently marked either DOT, seven square inches of reflecting material (about three inch No part of SAE A, or SAE J 594; otherwise, it shall display at mirror, bracket, or any other portion of the bus. practicable. (Section 12-202 of the Code) edge of the maximum width of the bus. required reflecting material may be diameter if a solid circle).

B) A sheet type (tape) reflex reflector which conforms to FMVSS 108 (49 CFR 571.108 (S5.7.1.2)) may be used but its forward projected reflecting area shall be at least eight square inches.

2) Left Sid

One amber at or near the front and one red at or near the rear.
Mounted at a height not less than 15 inches and not more than 60 inches above the surface of the road. On sides of buses 20 feet or more in length, one amber as near center as practicable must also be provided. (Section 12-202 of the Code) The reflector must measure a minimum of three inches in diameter.

3) Right Side

One amber at or near the front and one red at or near the rear.

Mounted at a height not less than 15 inches and not more than 60 inches above the surface of the road. On sides of buses 20 feet or more in length, one amber as near center as practicable must also be provided. (Section 12-202 of the Code) The reflector must measure a minimum of three inches in diameter.

4) Rear Two red reflectors on rear body within 12 inches of lower right

reflector must measure a minimum of three inches in diameter.

Two-vellow--front--reflectorsy-either-prismatic-or-sheet-(tape) shall-be installed between -380-mm-and-1525mm-(15"--6-66")--above the--roadway--on-either the-fendersy-the-eowiy-or-the-body-as-far apart-as-praetical-but-with-no-part-of-the-reflecting--surface more--than-380-mm-(11.8")-inboard-of-the-maximum-width-of-the-bus at-and-including-the-rub-rails--required--under--subsection--(2) below.

and lower left corners. (Section 12-202 of the Code)

2) A--prismatic-reflex--reflectory--if--installedy--shall--meet-the performance-requirements-of-PMVSS-188-and-be-installed--with--its front--face--ssentially--vertical--and--facing-no-more-than-li-3 degrees-outboard-of-formard;

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3) Sheet-or-tape,--if--installed,--shall--be--of--reflex--reflective material--conforming-to-the-specification-in-440.Appendix-E---The forward-projected-area-of-such-reflector-shall-be--no--less--than -005-m(2)-(8-sq.-in-)-

bb)z+ Rub Rails.

- Rub rails of longitudinally corrugated or ribbed steel at least 100 mm (3.9") wide shall be fixed on the exterior outside of the bus.
- which shall be one rub rail located approximately at seat level which shall extend from the rear of the service entrance completely around the bus body without interruption, except at a rear emergency door or a rear compartment, to a point of curvature near the front of the body on the left side.
- 3) There shall be one rub rail on each side located approximately at floor line which shall extend over the same longitudinal distance as the rub rail required under subsection (bb)(2) (t2)(t2), above, except:
- A) This rub rail need not extend across a wheel housing, and
 B) This rub rail may terminate at the radii of the right and
 left rear corners of the body.
- 4) Each rub rail required above shall be fastened to the bus body so as to attain at least 60 percent of the tensile strength of the weakest joined material, when strained in a direction parallel to the length of the rub rail.
- 5) Each joint in a rub rail required above shall be constructed so as to attain at least 60 percent of the tensile strength of a jointless length of rub rail, when strained in a direction parallel to the length of the rub rail.
 - 6) More than $\frac{1}{1}$ two rails may be installed on a side and/or threar of a bus.

osat, Driver's. The driver's seat shall be rigidly positioned, and shall afford both vertical and fore-and-aft adjustments of not less than 100 mm (3.9"), without the use of a tool or other non-attached device. The shortest distance between the steering wheel and the back rest of the operator's seat shall be no less than 280 mm (11").

2) Seats, Students'.

Each seat (except as provided in subsection (cc)(4) shall be constructed so that the shortest straight-line distance from the top of the seat back to the empty seat cushion is 28" when measured near the transverse center of the seat at the front of the seat back and along the angle of rearward inclination of the seat back. Since the height of a seat back is difficult to measure precisely on a repeated basis, a measurement of 27.5" or more is deemed acceptable.

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- Each seat shall be forward facing (except as provided in subsection (cc)(4)). B
 - In-a-bus-manufactured-in-July-1907-or-later: + K
- seat-at-the-front-of-the-seat-back-and-along-the-angle of-rearward-inelination-of-the-seat--baek.--Sinee--the Bach---non-handieapped---student-s---seat---shali---be eonstructed--so--that---the---shortest---straight-line distance--from--top-of-seat-back-to-empty-seat-eushion is-20"-when-measured-near-the-transverse-eenter-of-the height---of--a--seat--baek--is--diffieult--to--measure preeisely-on-a--repeatable--basis,--a--measurement--of 27.54-or-more-is-deemed-aeceptable:
- Each--non-handicapped--student-s-seat-shall-be-forward facings
- ClB; A flip-up seat may be located only immediately adjacent to any side emergency door. The flip-up seat must conform to following:
 - The seat must be designed so that, when in the folded back to prevent a child's limb from becoming lodged position, the seat cushion is flat against the seat between the seat cushion and seat back. i.
 - The seat must be designed to discourage a child from standing on the seat cushion when in the folded position. ii)
- The working mechanism under the seat must be covered to eliminate any tripping hazard.
 - padded pe All sharp metal edges on the seat must prevent any snagging hazard. iv)
- No--portion--of-a-seat-frame-or-seat-bottom-may-extend past-deer-opening:
 - V) with No portion of the door latch mechanism can obstructed by a seat.
- vi) *** There must be at least 11.7 inches (30 cm) measured from the door opening to the seat back in front.
- top of a barrier positioned in front of a student's seat (as Barriers, Students'. The In-a-bus-manufactured-in--January--1988 or---Bater,--the vertical distance from the floor covering to the distance from the floor covering to the top of the seat back on requirements of subsections (cc)(2) taa){2} and (3) shall be student with special needs (e.g., seat missing to accommodate wheelchair, hard surfaced stretcher installed to accommodate child who is not capable of sitting in a upright position) (see required by 49 CFR 571.222 PMVSS--face-Section-440.APPENDEX-A-Standard-No--2224) shall measure not less than the vertical the non-handieapped-student-s seat installed behind that barrier. In the case of a seat to be occupied by a handieapped student with special needs, the seat back, forward facing, and barrier changed only as necessary to meet the needs of the handieapped 3) 4)

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92 Ill. Adm. Code 444).

dd)bb Seatbelt(s), Driver's.

Any retractor(s) installed shall be of the automatic locking Each driver's seatbelt assembly shall be arranged so that all portions of the assembly remain above the floor when not in use.

with Buses manufactured after December 31, 1998 must be equipped a lap belt/shoulder harness designed for the driver. 2)

ee)eet Service Entrance and Door.

service entrance shall have a minimum vertical opening of 1.7 m 1) The service entrance shall be located on the right side near the front, in unobstructed and convenient view of the driver. (67") and a minimum horizontal opening of 610 mm (24").

be firmly attached in an unobstructed location on the left side of inside the entranceway entranee-way as a person enters the A steel grab handle not less than 250 mm (9.8") in length shall 2)

The bottom step in the entranceway shall not extend beyond the $\underline{\rm exterior}$ outside of the body. With all seats empty, the bottom step shall be not less than 300 mm (11.8") and not more than 400 þe pe approximately equal. Each step, including the floor at the top riser, shall be surfaced with a nonskid material with a 40 mm mm (15.7") from the roadway. At least two 2 steps shall The steps shall be enclosed. Risers shall (1.6") to 80 mm (3.1") white nosing as an integral piece. provided. 3)

The service door shall be either manually or power operated by door operating mechanism shall prevent accidental opening but the seated driver. When in the closed and secured position, the exposed parts of a door operating mechanism shall come together so as to shear or crush finger(s). The vertical closing edge(s) shall afford prompt release and opening by the driver. of a service door shall be padded to lessen chance of injury. 4)

operation of a power operated door shall be affixed permanently A power operated door shall be equipped for emergency manual operation in case of power failure. Instructions for emergency on the interior inside of the door in letters at least 12 mm (.5") high. 2)

A single-section service door shall be hinged at the front of the service entrance. (9

Glazed panels shall be installed in the service door to afford the driver a view of small children outside the door, traffic signs, and intersecting roadways. The bottom of each lower glass the bottom step. The top of each upper glass panel shall not be more than 3 inches from the top of the door. The --bottom--of--the towest-glazed-panel(s)-in-the-door-shall-be-no-higher-than-900-mm +35-4"}--£rom--the--roadway-when-all-seats-are-empty---The-top-of che-upper-giazed-paneits)-shaii-be-no-more--than--i50--mm--t5.9*+ panel shall not be more than 10 inches from the top surface 7)

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below-the-top-of-the-door-

- 8) Service Door Lock (Optional). If ordered by the purchaser, a lock may be installed on or at the service door. Any type service door locking system installed in the bus shall conform to at least one of the following requirements.
 - A) Requirement 1: A locking system shall not be capable of preventing the seated-bus driver from easily and quickly opening the service door; or.
- B) Requirement 2: A locking system that is capable of preventing the seated-bus driver from easily and quickly opening the service door shall include an audible and visible alarm to alert the driver when the engine is running and the service door is locked. No alarm disconnect, "squelch control", or other alarm defeating or attenuating device shall be installed; or.
 - C) Requirement 3: A locking system shall not be capable of preventing the seated—bus driver from easily and quickly opening the service door except when, and only when, a person outside the bus uses a key that is not capable of locking more than one of at least 1000 of the door
- manufacturer's key locking systems.

 <u>ff.ldd</u> Steering Wheel Clearance. The rim grip of the steering wheel shall have at least 50 mm (2") clearance in all directions, except at the spokes.
- qqlee† Steps, Body Front. On each side at the front of the body at least one grab handle and recessed foothold or folding stirrup step shall be installed so as to provide easy access to the windshield for cleaning purposes.
 - hh)ff} Stop Signal Arm Panel.
- 1) A stop signal arm panel must be installed on the left side of the bus which conforms to 49 CFR 571.131. The panel and may be operated either manually or mechanically. Decals may be used in lieu of painting. Strobe lamps are acceptable on stop signal arm panels arms.
 - A) For-any-school-bus-manufactured-on-and-after-September-iv 1992-the-arm-must-be-an-octagon-shaped--semaphore--which eonforms--to--49--GFR--571-131--(October-iv-1992)---No-later amendments--to--or--editions---of---49---GFR---571-131---are incorporated-
- By Buses--manufactured-prior-to-September-iy-1992-may-either-be equipped-with-an-octagon-shaped-semaphore--which--meets--the requirements----iisted---in---subsection---ff(i)(A)---or---a hexagon-shaped-semaphore-which-meets-the-requirements-listed in-subsection-ff(1)(A)---or----
- e) Hexagon—--ghe--arin/co/. approximately--10--inches-wide-and-10-inches-long-and-of-16 gauge-metalr--The-stop-signal-arm-shail-have-the-word-wG90pu painted-on-both-sides-in-white-letters-at-least--six--inches

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high—with—a-brush-stroke-approximately-7/0-ineh-wide:--The word—uST0PL—shall—be-painted—on a-panel—with—red—background of—approximately-0-inehes-by-16-inches;--The-remaining-area of—approximately-0-inches;--The-remaining-area of—the-stop-arm—blade-is-to-be-painted—with-red—band—of white—border—-th-least-1/2-inch-wide-painted-front and-ear on-both-sides-as-contrast:--The-white-portion—of—the-arop signal—arm—shall—be-reflectorized—or-shall—have-double-faced famps—with—red—leas-approximately-four-inches-in-diameter located—in-the-top-and-bottommost—position—of—the—blade: These — lamps—shall—light-and-flash-alternately-when-the-stop the-arm—is-extended and-likewise-turn-off-and-stop-flashing—when the-arm—ts-extended-and-flash-alternately-when-the-stop the-arm—is-elosed-

- 2) "Operated ... mechanically" shall be interpreted to include power operation. Also, "16-gauge metal" shall be interpreted to include thicker metal and any nonmettalic material equivalent or superior to hot rolled 16-gauge mild steel in stiffness, corrosion resistance, and durability.
- Seetion-440-Illustration-A-depicts-the-hexagon--shaped--semaphore referenced--in--subsection-(ff)(1)+(0)--Section 440.Illustration B depicts the octagon shaped semaphore required in subsection (hh)(1) referenced-in-subsection-(ff)+(1)+(4).
- 4) When demonstrating conformance with signal operating requirements by performing the sequence of operations specified under subsection (s)(l) (t+f2+, the driver, or operator, may employ any independent or manual operation or disconnection of the stop signal arm panel that is provided for convenient use by the seated driver without using any type of tool and without removing any unattached part.
- Additional stop signal arm panels may be added at the purchaser's request. Additional panels must be located on the left side of the bus. Additional panels must operate in conjunction with the required panel and meet all stop arm panel requirements except as follows. The additional panel must not contain any lights, marking or reflective material on the front side of the panel. The additional panel must be located in the rear half of the bus
 - adjacent to the rearmost window.
 ii)gg; Storage Compartment(s) (Optional).
- and of adequate strength and capacity for the storage of the items to be carried, such as tire chains, tow chains, tools for roadside or minor repairs, school activity equipment, etc. The compartment(s) shall provide reasonable security for the contents and shall be constructed and installed so as to preclude passenger injury due to the compartment(s) or the contents becoming disloded when the bus is subjected to the maximum possible braking force and to minimize chances of such injury when the bus is subjected to a collision impact.
- when the bus is subjected to a confident.

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passenger compartment, seat cushion(s) alone may not serve as the cover for the compartment.

ji)hh; Sun Visor. An interior, adjustable, transparent, tinted sun visor not less than 150 mm (5.9") high by 760 mm (29.9") wide shall be so installed that it can be turned up and will remain up when not in use. It may be supported so that it can be moved for use on the driver's left, but when used in front of the driver and in a position approximately parallel to the windshield it shall be supported at or near each of its ends so as to minimize its vibration.

kk) it Tow Hook, Rear (Optional). Any tow hook(s) installed on the rear shall be attached or braced to the chassis frame, or to an equivalent structural member of an integral type bus. A tow hook may not extend beyond the rear face of the rear bumper.

and the side panels below the floor, shall be coated with a fire-resistant undercoating material applied by the spray method so as to seal, insulate, reduce corrosion, and reduce interior noise. Non-metallic components need not be coated.

wentilation. The body shall be equipped with a controlled ventilation system of sufficient capacity to maintain a satisfactory ratio of outside to inside air under cool and cold operating conditions without opening of windows. With a powered ventilation system, air outlet openings shall be located, sized, and manufactured so that, with doors and windows closed, a positive pressure is maintained in the driver and passenger spaces, to lessen chances of dangerous gas entering such spaces. Fresh air inlet(s) shall be located so as to minimize entrance of either dangerous engine gas or obnoxious engine fumes.

Inches square and three red reflectors a minimum of three inches in diameter or three bi-directional emergency triangles that conform to 49 CFR 571.125. (Section 12-702 of the Code) The kit must be securely stored. Emergency-warning-devices-supplied-with-the-bus-shalt-consist of-3--bi-directionary-fluorescent reflective;—dey-night;-triangler warning-devices-that-conform-to-PMVSS-125-

AGENCY NOTE: A school bus must carry warning devices when on the public roads, but the bus purchaser may elect to install warning devices after the bus is purchased that-are-in-serviceable-condition and-that-conform-to-625-IE6S-5/12-792-and-to-school-bus-safety-test

requirements.

OOD)mm.) Weight Distribution and Gross Weight. Storage or cargo spaces, if installed, and seats shall be located so that when the bus is fully loaded as specified or advertised by the manufacturer the loads exerted on the roadway will exceed neither a tire load rating, nor a gross axle weight rating, nor the gross vehicle weight rating indicated by the data displayed on the label permanently affixed in compliance with Section 440.310.

pp)nn; Wheel Housings.

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- Each wheel housing opening shall allow for unimpeded wheel and tire service or removal.
 - 2) Each rear wheel housing shall provide the clearance recommended in SAE Information Report J683a, July 1966, for installation and use of tire chains on the dual or single tires installed on the rear wheels.

per installed in the rear of the bus so as to afford the seated driver a reflected view through the rear of the bus as wide and as high as practical without unduly weakening or increasing the cost of the body structure. Such view shall be as low as allowed by the back(s) of the rear seat(s) except that, when the aisle required under subsection (a), extends to a rear emergency door, an additional lower glazed panel shall be installed to afford the driver an additional view through such panel at least the width of the required aisle and as low and high as practical. Any-authorized-or-required-sign(s), -letters, or-numerals-displayed-on-the-glazing-in-the-rear-of-the-bus-shall-be wholly-located-at-least-lit2-m--(44+1#)-above--the--floor--provided, howeverr-the-glazing-identification-markings-required-under-subsection (h){2}; may-be-displayed-at-lower-levels-

subparagraphs Openings, Side. This subsection does The --feltewing
subparagraphs-de not apply to a window or glazed panel installed
forward of a front passenger seat, and are optional for a window
installed either beside a rear passenger seat, or in a side emergency
exit.

- provide an opening (for emergency egress) at least 560 mm (22") wide (fore & aft) and at least 230 mm (9") high. However, with the window in its lowest position the opening shall be at least 460 mm (18.1") above the seating surface of any passenger seat. Any latch located in the side window opening shall be recessed. Each such opening shall be free exterior entside or interior instilled. Each exposed edge of glass shall be banded.
 - 2) A horizontal "Stop Line" shall be affixed permanently across the stationary structure between each of the windows that can be opened by sliding downwards. The bottom of the line shall be between 150 mm and 155 mm (5.9" and 6.1") below the top of the window opening. The line shall contrast with the color of the stationary structure and be at least 5 mm (.2") wide.

ss)qq> Windshield.

-) The windshield shall be large enough to permit the operator to see the highway clearly, and shall be curved or slanted to reduce glare. The front cornerposts and other supports shall be shaped and located so as to cause as little obstruction to the driver's view of the highway as practical.
- 2) The windshield shall have a graduated glazing shade band across the top. The definition and boundary of this shade band shall be

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tt) rr Wiring. The following applies to wiring in Type I school buses: as recommended in SAE Recommended Practice J100, July 1969.

- recommended for automobiles, motor coaches, and heavy duty starting motor circuits in SAE Recommended Practices J556, J555a, 1) All wiring for lamps and other electrical devices shall be as and J541a and in other practices or standards referenced therein, unless preempted by FMVSS.
 - Circuits. 5
- A) Wiring shall be arranged in at least nine regular circuits as follows:
- Clearance lamps and any lamps in or adjacent to step Head, tail, stop (brake), and instrument panel lamps; risers;
 - Interior lamps;
- Starter motor; iv)
- Ignition, emergency exit alarm signal(s), and other alarm signal(s); <u>۸</u>
 - Turn signal lamps;
- vii) Alternately flashing signal lamps and stop signal arm lamps;
- viii) Horn;
- ix) Heater and defroster.
- Any of the above combination circuits, except (vii), may be other electrical functions (sanders, windshield wipers, heaters, defrosters, etc.) shall be provided with divided into independent circuits. Whenever feasible, all independent and properly protected circuits. В)
- and numeral(s) and/or letter(s), or by color(s) only. The code(s) shall appear on a diagram of the circuits in a readily Each body circuit shall be coded either by numeral(s) and/or color letter(s) at approximately 100 mm (3.9") intervals, or by accessible location. 3)
- A separate fuse or circuit breaker shall be provided for at least each circuit required under subsection (tt)(2)(A) {rr+}{2}{A}, except that components of the engine starter and ignition circuits may be protected by other means. 4)
 - Wires not enclosed within the body shall be fastened securely intervals of not more than 460 mm (18.1"). 2)
 - All terminals and splice clips shall be accessible. (9
- The chassis manufacturer shall install a readily accessible electrical terminal so that the net body and chassis electrical current flow can be indicated through a chassis ammeter without dismantling or disassembling the chassis component. The chassis wiring to this terminal shall have a current carrying capacity at least equal to the maximum generator output. 7

effective Reg. 111. 22 (Source: Amended

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SUBPART F: CHASSIS REQUIREMENTS

Section 440.505 Conformance to the Requirements

chassis of each Type I School Bus shall conform to the requirements stated or of Section referred to in this Subpart. Some body requirements also applicable to the 13-109 of the Code ±3-±0±7-0£-the-IVE, and when delivered to the purchaser, the At the time of the original safety test conducted under provision chassis are repeated or referred to herein.

effective Reg. 111. 22 at (Source: Amended

Section 440.510 Incorporation by Reference of Federal Motor Vehicle Safety Standards Federal-Requirements

effect on October 1, 1997. No later amendments to or editions of 49 CFR 571.101 through 571.304 are incorporated. Each-bus-chassis-shall-conform-to-the applicable-provisions-of-Pederal-Motor-Vehicle-Safety--Standards--(FMVSS)--1017 1827--185-757--186-747--1887--1127--1137-1167-1197-1287-1217-1247-and-381-75-in completed--his--last--manufacturing--operation-on-the-incomplete-bus-i-e---the month-designated-adjacent-to--the--name--of--the--original--incomplete--vehicle manufacturer--on-the-certification-label-required-under-Section-448-3187-above-Availability-and-summary-descriptions-of-the-federal-certification--regulations the first day of the month in which the chassis manufacturer completed his last manufacturing operation on the incomplete bus. Those applicable provisions of effect-on-the-first--day--of--the--month--in--which--the--chassis--manufacturer bus body must conform to the applicable provisions of the Federal Motor the FMVSS are incorporated by reference as that Subpart of the FWVSS was Vehicle Safety Standards (FMVSS) (49 CFR 571.101 through 571.304) in effect and-the-applicable-PMVSS-are-in-Appendix-ieffective 111. 22 at (Source: Amended

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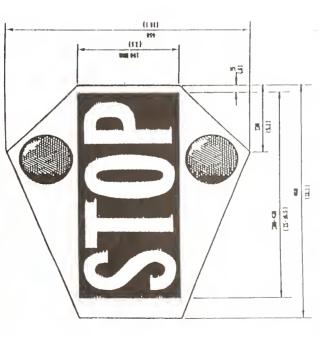
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Hexagon Shaped Stop Signal Arm (Repealed) Section 440, ILLUSTRATION A

...psiosai-Double Faced Red Lamps, 95-115 (35-15) diameter-Lamps, if installed, are to flash after-Une design that maforms to Section 12 803, IVC)

-passely top & bottom towards front & reas wices arm exteries.



Word "STOP" at least 150 (6) him mon strone at least 20 (.5)

minica greats, except letters, MUST be redectorised Letters may When red lamps are not accounted

Terrir nord #8TOP" on beight and maith of rea background Front face chows; Rear face similar.

Dimensions are millimeters (inabes). Tolerance = 2 except as shown...

, effective Repealed at ___ Ill. Reg. (Source:

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When-red-tamps--are--not--installed,--white--areas,--except--letters,--MUST--be reflectorized.--Letters-may-be-reflectorized.

Genter-word-±SY8P[±]-on-height-and-width-of-red-background;

Pront-face-shown;-Rear-face-simitar:

Dimensions--are--millimeters--(inches)----Tolerance--plus--or-minus-3-except-as Shown-

effective Reg. 111. 22 a t (Source: Repealed S874

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(Source: Amended at 22 111. Reg. , effective

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Section 440.ILLUSTRATION B Octagon Shaped Stop Signal Arm Panel

White 150 mm (5.9 in.)

Red Stroke width of letters – 20 mm (0.79 in.)

12 mm (0.47 in.)

(Source: Amended at ______, effective__

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Section 440.APPENDIX A Federal Motor Vehicle Safety Standards (FMVSS) and Related Regulations (Repealed)

Availability

the-CFR-and-of-the-Pederal-Register-(FR);---Title-49-of-the-CFR-is--issued--each Parts--537,--560,--and-571-in-Titte-49-of-the-Gode-of-Pederal-Regulations-(GPR) gre-gvgilable-in-those-public-libraries-and-other-places-that-maintain-files-of October-1---Detween-annual-issues-it-is-kept-up-to-date-by-notices-published-in the-Federal-Register,-which-is-issued-daily-

Additional--information--concerning--availability-and-contents-of-the-PMVSS-and related-regulations-may-be-obtained-from:

Reqional-Administrator

Region-5,-National-Highway-Traffic-Safety-Administration 1010-Dixie-Highway

Chicago-Heights,-IL-60411

Attn:--Ardella-Pitts-(Phone:---312/756-1950)

Summary-Beseriptions:

appitcable--provisions--of--FMVSS--in--effect--in-either-the-month-in-which-the vehicle-was-completed,-or--the--month--in--which--the--incomplete--vehiele--was requirements--for--a--label--affraed--to-vehicles-so-so-as-to-assist-a-consumer-in determining-which-of-the-PMVSS-are--applicable--to--a--particular--vehicle----A vehicle---(such--as-a-body-on-chassis-school-bus)-that-is-manufactured-in-two-or more-stages-must-be-certified--to--be--manufactured--in-conformance--with--the manufactured,-or-any-month-between-those-months.

with-the-PMVSS-and-related--regulations;---In--general;--each--manufacturer--is advised-by-the-previous-manufacturer-of-action-taken-concerning-requirements-of Part-560-#Vehicles-Manufactured-in-Two-or-More-Stages#-prescribes-the-method-by which--the--manufacturers--of-such-vehicles-ensure-conformity-of-those-vehicles the--standards.----The---final-stage-manufacturer-of-a-school-bus-usually-effects the-certification-of-conformance-as-specified-under-Part-567. Part-571-"Federal-Motor-Vehicle-Safety-Standards"-sets-forth-the-actual-federal safety-standards.--After-a-completed-vehicle-is-certified-and-until-the-vehiele is-sold-for-use,-no-person-may-effect-an--alteration--that--affects--eompliance with-a-FMVSS:--The-"100-series"-standards-attempt-to-prevent-crashes:--The-"200 series u --attempt--to--reduce--accident--severity $_{ au}$ --- $_{ au}$ he-- u 3 $_{ heta}$ 0 $_{ heta}$ --series u --concern post-accident--events.---The-attached-#Summary-Description $^{\mu}$ -o $\hat{ ext{FMVSS}}$ -appiicabie to-buses-was-provided-by--federal--authorities-----{PMVSS--301-75,--also--covers school-buses-l07000-pounds-or-more:)

In-a-notice-published-August-26;~1976;-on-page-36026-et-seg-in-Volume-41-of-the Pederal--Register--(41--FR-36026)-the-effective-dates-0f-Standards-105-757-2177 220,-221,-222,-and-301-75,-as-they-apply-to-school-buses,-were--postponed--from

Standard-No.-101---Control-becation,-Identification-and-Ellumination

October-1976-to-April-1-1977;

This--standard--requires--that--the--headlamps7--windshield--wiping--and--other essential--controls--of--bassenger--cars-be-labeled-and-within-the-reaeh-of-the

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driver-restrained-by-a-lap-and-upper-torso-restraint-seat-belt;---Purpose-of-the standard--is--to--faeilitate--control--selection--and---insure---accessibility-B£fective-September-1-1-1972,-the-applicability-was-extended-to-buses.

Standard--No.--102----Transmission-Shift-bever-Sequencey-Starter-Interlocky-and Transmission-Braking-Effect

mounted-on-the-steering-column,--the--shift--lever--movement--from--neutral--to the-car-in-reverse-or-forward-drive-positions,-transmission-braking--capability and--the--permanent--marking--of--the--shift-lever-sequence---fts-purpose-is-to reduce-the-likelihood-of-shifting-errorsy-starter-engagement--with--vehicle--in This-standard-requires-all-vehicles--with--automatic--transmission--to--have--a neutral--shift--lever-position-between-the-forward-and-reverse-drive-positions, and-whenever-a-park-position-is-ineluded-to-be-located-at-the-end-of-the--shift tever--sequence-adjacent-to-the-reverese-drive-position:--If-the-shift-lever-is forward--shall-be-elockwise.--It-also-requires-an-interlock-to-prevent-starting gear,-and-provide-supplemental-braking-at-speeds-below-25-miles-per-hour; Standard-No.-103---Windshield-Defrosting-and-Defogging-Systems

visibility-through-the-windshield-during-frosting-and-fogging-conditions----The trueks--and--buses--manufactured--for--sale-in-the-continental-United-States-be equipped-with-windshield-defrosters.--The-purpose-of-the-standard-is-to-provide standard--provides--test--conditions-and-performance-requirements-for-passenger car-defrosting-systems.--A-reeent-amendment-modified-the--vind-test--eondition The-standard-requires-that-all-passenger-cars,-multipurpose-passenger-vehieles; procedure,-effective-9/1/75.

Standard-No.-104---Windshield-Wiping-and-Washing-Systems

power-driven-windshield-wipers-and-windshield-washer-systems.--Its--purpose--is The--standards--includes--test--procedures-and-performance-requirements-for-the This -- standard -- requires -- that -- all -- buses -- be -- equipped - with - two-or - more - speed to-provide-improved-visibility-through-the-windshield-during-inelement-weatherwasher-systems-and-specifies-the-wiper-area-eoverage-for-passenger-ears-Standard-No.-185-75---Hydraulic-Brake-Systems

This-standard-requires-passenger-cars-to-have-brake-systems-eapable-of-stopping the--vehicke--under--speeified--conditions.----Amendments---to---the---standard included:---Upgraded--requirements-for-passenger-ears-and-extended-applicability to-mulitpurpose-passenger-vehieles,-trucks-and-buses-effeetive-9/1/75-and-later detayed-until-l/1/746,-permission-to-manufaeture-vehieles-without-split--service brake--systems:----The--split--service--brake--system--incorporates--service-and emergency-features-that-are-capable--of--stopping--the--vehiele--under--certain specified--eonditions,--such--as--"hot"--and--"wet"--fadey-partial-failtae,-and inoperative-power-assist.---The-parking-brake-system-must-be-capable-of--holding light--vehicles-on-a-30-percent-grade-and-heavy-vehicles-on-a-20-pereent-grado∵ Warning-lights-are-required-to-indicate-loss--of--pressure;--low--fluid--levely antilock--system--failure--and--parking--brake-application---School-bus-braking

Standard-No.-186---Hydraulic-Brake-Hoses

October-127-1976.

requirements-were-established-in--a--later--amendment--whieh--became--effeetive

The---initial---standard--establishes--minimum--requirements--for--brake--hoses amendment-to-the-standard-extends-the-applicability-to-all-motor--vehieles--and manufaetured-for-use-on-passenger-ears-and-multipurpose-passenger-vehieles:--An

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1975,-for-vehicles-to-which-the-standard-applies:--A-recent--amendment--permits and-established-effeetive-date-of-September-17-19747-for-brake-hose--and--brake hose--end-fittings;-March-l;-1975;-for-brake-hose-assemblies;-and;-September-l; hydraulic,---air--and-vacuum-brake-hoses,-brake-hose-assemblies,-and-brake-hoses and-fittings-for-use-in-those-vehicles---Other-amendments-modified-requirements until---August---31,---1976,--manufacturing--of-motor-vehicles-with-brake-hose-end fittings-and-assemblies-whieh-comply-with-all-requirements-of-the-standard. Standard-No.-107---Reflecting-Surfaces

surfaces-which-will-reduce-the-likelihood-of-visual-glare-in-the-driver-s-eyes-This-standard-requires-that-windshield-wiper-arms;-inside-windshield--moldings; horn--rings--and--the-frames-and-braekets-of-inside-rearview-mirrors-have-matte Standard-No.-180---bamps,-Reflective-Devices,-and-Associated-Equipment

because-they-are-used-in-intrastate-operations:--This-standard--also--specifies This--standard--specified--requirements--for--lamps;--reflective--devices;--and associated-equipment,-for-signalling-and-to-enable-safe-operation--in--darkness and--other--conditions--of--reduced-visibility.--It-applies-the-Bureau-of-Motor Carrier-Safety-Regulations-to-a-number-of-large-vehieles-not-previously-covered appropriate--lighting--equipment--for--motoreyeles,--passenger--cars--and-small muiti-purpose-passenger-vehieles,-trueks,--trailers,--and--buses,----Sidemarker lights--and-reflectors;-hazard-warning-lights-and-baekup-lights-are-ineluded-in the-requirements-for-these-vehicles.--This-standard-has--been--amended--several times--increasing--the--safety-performance-levels-of-lighting-systems:--Several revisions-were-made-in-the-standard,-effective-Januury-1,-1972,--ineluding--the extension--of--the--requirements-to-cover-all-applicable-replacement-equipment; Another-amendment,-effeetive-January-ly-1973,-affects-turn--signal--and--hazard warning---signal---flashers----Other---amendments---include--minimum--lighting requirements-for-mobile-structure-trailers,-and-revised-requirements--for--rear lighting--on--small--motor--driven--cyeles,--disallowanee-of-4-lamp-reetangular systems; and -clarification - of -electrical -terminal - specifications;

This-standard-requires-rearview-mirrors-to-provide-the-driver-with-a-elear--and reasonably-unobstructed--view--to--the--rear---It-requires-an-outside-rearview sufficient-field-of-view-because-of-the-size-or-location-of-the-rear-window,-an mirror-must-be-designed-to-reduce-the-likelihood-of-injury-on-impaet----It--was amended--to--aliow--installation--of--truek-type-mirror-systems-in-multipurpose mirror-on-the-driver-s-side,-and-when-the-inside--mirror--does--not--provide--a additional--outside-mirror-on-the-passenger-side-is-required:--Aiso,-the-inside passenger-vehicles-and-to-extend-application-to-trucks-and-buses-Standard-No--112---Headlamp-Conecalment-Devices Standard-No--111---Rearview-Mirrors

is--to--eliminate--the--possibility--of--loss--of--forward--visibility--due--to malfunction--of--the--headlamp--concealment--deviee;--a--problem-with-some-such This-standard-specifies-that-any-fully-opened-headlamp-concealment-deviee-shall electrical-supply-for-controlling-the-concealment-device-occurs----fts--purpose remain-fully-opened-whether-either-or-both-of--the--following--oceur---(a)--any loss--of--power--to--or--within--the-device-or-{b}-any-malfunetion-of-wiring-or

This-standard,-effective-January-l,-1969,-specifies--requirements--for--a--hood Standard-No--113---Hood-batch-Systems

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tatch--system--for-each-hood.--A-front-opening-hood.-which-in-an-open-position, partially--or--completely--obstruets--a--driver-s--forward--view--through---the windshield,--must--be--provided--with-a-second-lateh-position-on-the-hood-latch system-or-with-a-seeond-hood-lateh-system-

Standard-No.-116---Hydraulie-Brake-Fluids

This-standard-specifies-minimum-physical--characteristies--for--two--grades--of vehieles:---In-addition;-the-standard-establishes-labeling-requirements-for--all brake--fluid-containers---An-amendment-established-performance-requirements-for an--additional--type--of--brake--fluid,--BOY--5,--which--ean~-operate--at--high brake--fluids,-D07-3-and-D07-4,-for-use-in-hydraulic-brake-systems-of-all-motor temperatures-and-does-not-absorb-moisture-

Standard-No.-119---New-Pneumatie-Fires

pneumatic---tires--designed--for-highway-use-on-multipurpose-passenger-vehieles, trueks,-buses,-trailers-and-motorcycles-manufactured-after-1940,--and--requires treadwear--indicators--in--tires;-and-rim-matching-information-eoneerning-those tires.-It-was-amended-changing-the-effective-date-from-9/1/74--to--3/1/75.---1t was--further--amended-changing--in-several-respects--the-definitions--labelling Phis--standard--speeifies--performance--and--labelling--requirements--for---new and-performance-provisions-of-the-standard-

speeifies-marking-requirements-for-rims-and-requires-additional--tire--and--rim 119--and--rims--designated-in-the-tire-association-manuals-as-fitting-them---It size-designation,-pressure-and-speed-restrictions-and-weight-rating-information This-standard-requires-new-vehicles-to-have-tires-conforming--to--Standard--Noto-the-placed-on-the-existing-certification-label. Standard-No.-128----Tire-Selection-and-Rims

Standard-No.-121---Air-Brake-Systems

aeeidents.--Amendments-moved-the-effeetive-date-of-the-Standard-from-9/1/74--to firefighting--vehicles;--and--to--9/1476;--for--a--group--of--speeial-vehieles; Specialized-vehieles-were-exempted-from-the--Standard--altogether--and--reduced requirements-were-specified-for-eertain-vehicles-for-an-interim-period-of-time; The--emergency--braking--requirements--of--the--Standard-were-amended-effeetive 9/1/746,--and--other--minor--ehanges--were--made--to--the--requirements----6ther amendments-established--new--serviee--brake--system--stopping--distanees--until 1/1/79---and--inereased--brake--aetuation-times-and-permitted-bulk-agricultural This-standard-establishes-significantly-improved-performance-requirements-which will--not--only--shorten--stopping--distances-but-will-eliminate-most-jackknife 171757--for--traiters;--to--3/1757--for--trucks--and--buses;--to--9/1/75--for commodity-trailers-to-meet-other-emergency-and-parking-brake-requirements.

This-standard-establishes-requirements-for-the-return-of-a--vehicle-s--throttle aeceterator-controt,-or-in-the-event-of-a--breakage--or--diseonneetion--in--the to--the--idle--position--when--the--driver-removes-the-aetuating-force-from-the Standard-No.-124---Aeeelerator-Control-Systems aeeelerator-eentrol-system;

Standard-No.-205---Glazing-Materials

This--standard--specifies--requirements--for--all--glazing--materials--used--in windshields,--windows,--and-interior-partitions-of-motor-vehicles---Its-purpose is-to-reduce-the-likelihood-of-laeerations-to-the-faeer-scalpy-and-necky-and-to minimize-the-possibility-of-occupants-penetrating-the-windshield-in-collisions;

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it-requiresy-among-other-thingsy-that-windshields-be-of-a--type--that--tend--to cushion--those-that--impact-themy-rather-than-allowing-head-penetration-and-even decapitetion---a-problem with-older-windshields---An amendment-to-this-standard added-two-new--categorites--of-grazing--materialsy--amended--the--certification requirementsy-and-made-minor-changes-to-the-chemical-resistance-tests- Gendard-No--207---Seating-Systems

This.-standard-establishes-requirements-for-seats;-their-attachment-assemblies; and their-installation-to-minimize-the-possibility-of-failure-as--a-result--of forces--aeting--on--the--seat--on--vehicle--impact:--This-standard-was-amended; effective-January-ly-1972;-to-extend-applicability--to--the--driver-s-seat--of

Standard-No.-200--0ccupant-Crash-Protection

January-1,-1972,-passenger-cars-were-reguired--to--have--improved--safety--belt systems--which--incorporate-automatic-adjustery-single-point-release-and-a-belt interiock-systems:--bight---trucks--and--multi-purpose--passenger--vehicles--were <u> This a--standard--amends-Standard-No--200;-Seat-Beltt-Installations,-by-specifying</u> requirements-for-both-active-and-passive-occupant-crash-protection-systems--for passenger--cars,--multipurpose-passenger-vehicles,-trucks-and-buses,---Effective use-warning-system.--Dffective-August-15,-1973,-passenger-cars-were-required-to provide-oceupant-crash-protection-for-front-seating-positions-by-passive--means that--require--no--action--by--vehicle--occupants--or--to--provide-belt-starter reguired--to--have--one--of--these-systems-after-August-15,-1975;--An-amendment visual--signali--a-uPasten-Seat-Belt,"-sign-and-an-audible-signal-that-operates for-a-4--to-8-second-period-after-the-ignition-is-operated;-effective--Pebruary 257---19757---for--passenger-cars-and-January-ly-1976-for-multi-purpose-passenger vehicles-and-light-trucks---A-recent-amendment-continues--present--options--for disallowed-the-starter-interlock-systems-and--establishes--requirements--for--a oecupant-protection-in-passenger-cars-until-August-31,-1976. The --National --Bureau-of-Standard-s-vehiele-seat-belt-specifications; orginally incorporated-by-reference; were-made-a-part-of-this standard-in-1960; --In-order to-mittgate-the-results-of-an-accident-to-a-person-in-a-motor-vehicle; --the standard-specifics-requirements apply-to-straps; webbing-(or-similar-devices); --buckles; --fhe-requirements apply-to-straps; webbing-(or-similar-devices); --buckles; --fhe-requirements standard-was-amended-for-installing-the-assembly-in-a-motor-vehicle; --alhis standard-was-amended-for-installing-the-assembly-in-a-motor-vehicle; --This standard-was-amended-evebbing-abrasion; -buckle-crush; --and--emergency locking--required--of-mergency locking--retractor;

Standard-No--209---Seat-Belt-Assemblies

emerychcy rocking retractor. Standard-No--210---Seat-Belt-Assembly-Anehorages Specifies-requirements-for-seat-belt anchorages-to--insure--effective--occupant restraint--and--to--reduce--the--likelihood-of-failure-in-collistons---Requires anchorages-for-lap-and-upper-torso-restraint-belts-in-forward--facing--outboard sats---of-cars---The--standard-was-extended-to-driverls-seats--in-buses-effective danuary-ir-1972.

Standard-No--213---Child-Seating-Systems

Specifies-requirements-for-child-seating-systems-to-minimize-the-likelihood--of injury--to-20-50-ib--children-in-vehicle-crashes-or-sudden-stops-by-ejection-or contaet-with-a-ehild-seating-system---Requires-providing-information-for-proper

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installation-and-use;

Standard-No--217---Bus-Window-Retention-and-Release

Standard---No.---219-----Windshield--Bone--Intrusion--(Passenger--Ears-9/1/76, Multipurpose-Passenger-Vehicle,-Truek,-6-Bus-of-10,008--1bs;--or--less--GVWR---9/1/77+ Standard-No--228---Sehool-Bus-Rollover-Protection

This-standard-specifies-performance-requirement-for-the-structural-integrity-of the passanger-compartment-of-school-buses-when-subjected-to-forces-that-can-be encountered-in-rollovers;-Phe-standard-requires-that; upon-the-application-of vertical-downward-force-to-the-bus-roof-equal-to-l-1-1/2--times-the-vehicle-vehicle-to-the-bus-roof-equal-to-l-1-1/2--times-the-vehicle-ts the-emergency-exits-shalt-he-capable-of-being-opened;-with-the--weight--applied and-after-its-release.

Standard-No--221---School-Bus-Body-Joint-Stength

This -- standard--addresses--the--problem-of-exposure-of-sehool-bus-passengers-to sharp-metal-edges when--during-an-aceidenty-body-panels become--separated--from the structural-emponents-to-whieh-they-have-been-fastened;--It-seeks-to-reduce the--likelihood--of--lacerations--by-requiring-that-body-joints-on-sehool-buses have-a tensite-strength-equal-to-60-percent-of--the-weakest-joint-body-panels;

Standard-No.-222---Sehool-Bus-Passenger-Seating-@-Grash-Proteetion

This---standard---specifies--seatingy--restraining--barriery--and--impact--zone requirements-for-school-busesy---The--standard--relies--on--compartmentalization between--well-padded--and-well-constructed-seats-to-provide-occupant-protection on-school-busesy

Standard-No--301---Fuel-System-Integrity

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limiting--fuel--spillage--incidental--to--severe-fronty-reary-and-lateral-crash (except-motorcycles)-and-requires-preservation--of--fuel--system--integrity--by

Standard-No.-302---Flammability-of-Interior-Materials

Specifies-burn-requirements-for-materials-used-in--the--compartments--of--motor Vehicles:----An--amendment;--effective--October--l;---1975;--modifies--the--test procedures-and-specimen-preparation-requirements-

effective Reg. 111. 22 at (Source: Repealed

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B First Aid Rit Requirements (Referred to in Section Section 440.APPENDIX 440.420(k) (Repealed)

 $\tt The-first-aid-kit-shall-conform-to-the-following-portions-of-the-Federal--Motor$ Carrier-Safety-Reguiations-(49-6FR-398-397→

On-every-bus,-except-buses-engaged-in-driveaway-towaway-operations,-there-shait Section-393.96-Buses, additional emergency equipment.

Not-Applicable. t 40

Not-Applicable.

One-£irst-aid-kit-complying-with-the-following-requirements: ¢

łarger,-or-have-contents--at--least--equivalent--in--guality--and Sise--of--kit----The--kit--shall-be-of-heavy-duty-lunit-type-or number-to-the-contents-of-such-a-kitMaterial--for--ease--and--eover---The-ease-and-the-eover-shall-be substantially-constructed-of-sheet-steel,-wood;-fiber,--other durable--material.---If--made--of-sheet-steel.-the-case-and-cover shall-be-of-metal-at-least-number-24-U-S--Gage-{nominal}-44

reasonabły-dust-and-weather-proof-when-the-cover-is-in-the-cłosed position,-or-the-kit-shall-be-mounted--in--a--protected--location **Yightness-of-case.--The-case-and-cover-shall-be--so--constructed;** ineluding--eorners,--eovers,--and-elosure-means,-that-it-shall-be within-the-passenger-compartment-of-the-motor-vehicle-so-as-to-be reasonably-dust-and-weather-proof-46

metałs,-the-case-shałł-be-so-designed-and--constructed--that--the cover--will-be-capable-of-being-easily-opened-to-an-angle-of-90 $^\circ$ to-100°-with-the-case-and-a-substantial-stop-shall-be-provided-at Opening--and--stop--for--cover----If-made-of-sheet-steel-or-other the-angle-of-full-opening---Such-stop-shall--not--interfere--with the-smooth-operation-of-the-cover∵ 44

attached-to-the-case-by,-at-least,-two-substantial-hinges-or-by-a eontinuous-piano-type-hinge---If-nonmetałłic,-the-cover-shałł--be attached--by--either--a--słiding-or-a-hinged-joint-if-hinged--it Nethod--of--hinging--cover---If-made-of-metal,-the-cover-shall-be shall-be-as-preseribed-for-metallie-construction-54

Size-of-case---The-dimensions-of-the-case-shall-be--such--as--to permit---the--contents-to-be-easily-extracted-and-yet-maintain-the contents-in-a-relatively-fixed-position-64

Contents-of-kit...-The-kit-shall-contain--at--least--the--contents specified,--in--not--less-than-the-quantities-shown,-in-either-of the-two-following-types-of-kits:

4--- Bnit-- Type-Kit

40-inch-triangular-bandage-with-two-safety-pins-...-i-paekage

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B--Commercial-Type-Kit

Bach-kit-shall-contain-instructions-for-the-use-of-the--contents-The-contents-of-the-kits-shall-conform-either-to-the-requirements contained--in--Pederal-Specification-66-K-391(a)-(Oct--19,7-1954)7 Pifteenth--Revision-of-the-Pharmacopoeia-of-the-United-States-and 40-inch-triangular-bandage-in-the--commercial--type--kit--may--be sterile----No--specification--type--scissor-is-required---Pederal as-amended-March-3--1959---or--the--standards--as--found--in--the Supplement-No--2-thereof-dated-September-17-19587-except-that-the non-sterile--and--not--compressed--in--the-required-manner-if-the package-containing-it-clearly--indicates--the--contents--are--not Specification-66-K-391{a}-and-amendments-may-be-obtained-from-the 34-x-34-sterile-gauze-pads-t-t-t-t-t-t-t-t-t-3-packages-of-l0 40-inch-triangular-bandage-with-two-safety-pins-;:::-i-package Superintendent-of-Bocuments,-Washington,-B-0-20402-Gauze-bandages-as-follows:

effective 111. 22 at (Source: Repealed

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Specification Sheet Reflective Material -- Encapsulated Lens (Based on FHWA Notice N 5040.17, June 15, 1976) (Repealed) Section 440.APPENDIX C

encapsulated-lens-type-consisting-of-spherical-lens--elements--adhered to--a--synthetic--resin--and--encapsulated-by-a-flexible;-transparent; weatherproof-plastic-having-a--smooth--outer--surface:---The--sheeting shall--have--a--pre-coated--adhesive--backing-protected-by-a-removable The--reflective-sheeting-covered-by-this-specification-shall-be-of-the Description ŀ

Golor-Requirements - ± ±

Photometry-"----(Geometric---characteristics---must---be--confined--to The-diffuse-day-color-of-the-reflective-material-shall-conform-to--the color--specification-shown-below-and-shall-be-determined-in-accordance with--ASTM-E97-55(1971)7---Standard--Method--of--Test--for--45-Bearee7 0-Begree--Birectional--Reflectance--of--Opaque--Specimens--by---Filter <u> illumination-incident-within-10-degrees--ofy--and--centered--abouty--a</u> direction--of--45--degrees-from-the-perpendicular-to-the-test-surface; viewing-is-within-15-degrees-of7-and-centered-about7-the-perpendicular to-the-test-surface---Conditions-of-illumination-and-observation--must not--be-interchanged-j--The-standard-to-be-used-for-reference-shall-be the-MUNSEBS-PAPER--designated--below----The--paper--must--be--recently calibrated--on--a-spectrophotometer---The-test-instrument-shall-be-one

Gardner-Model-AG-2a-Golor-Difference-Meter Gardner-Multipurpose-Reflectometer

of-the-following:

Meeco-Model-V-Colormaster

Golor-Specification-bimits-And-Reference-Standard Hunterlab-B25-Golor-Bifference-Meter

-----Munsell 4-25Y x-----y x-----y x-----y x-----y Min:-----Mnx: Yellow :490-:412 :557-:442 :479-:520 :438-:472 16:0----40:0 Reflectance Bimit Chromaticity-Coordinates (Corner-Points)

The-reflective-sheeting-shall-have-minimum-reflective-intensity-values Por-requirements-for-colorfastness-of-weathered-material-see-IX7-Burability. FFF- Reflective-Intensity

per-foot-candel-per-square-foot-{candelas-per-lux-per-square-meter}-of material---Reflective-intensity-shall-be-determined-by--the--following tabulated-below,-at-0.2ª-and-0.5ª-divergence,-expressed-as-candlepower method: Arrangement--for--the--reflective--intensity-test-shall-be-as-shown-in Pig.-l.-A-light-projector-having-a-maximum-lens--diameter--of--l-inch (2.54--cm)--and-capable-of-projecting-a-uniform-light-shall-be-used-to illuminate-the-sample---The-light-Ealling-on-the-sample-shall--have--a

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color--temperature--of--2856K--tequivalent-to-GIE-Std--Source-Aj---The light-reflected-from--the--test--surface--shall--be--measured--with--a photo-electric--receiver--whose--response--has--been-corrected-for-the color-sensitivity-of-the-average-photopic-human-eye----The--dimensions of--the-active-area-of-the-receiver-shall-be-such-that-no-point-on-the perimeter-is-more-than--one-half--inch--(l.27--cm)--from--the--center-Samples--shall-be-mounted-on-a-flat-black-test-surface-not-less-than-3 feet-(91:4-cm)-square-which;-when-tested--without--any--sample;--shall give--no--appreciable--reading:---The-sample-shall-be-50-feet-(15:24m) płus-or-minus-2-inches-(5-88-cm)--from--the--projector--lens--and--the receiver:----The--maximum-effective-area-of-the-test-sample-shall-be-l square-£oot-{.093-sq--m}.--The-maximum-dimension-o£--the--test--sampie shall-be-not-greater-than-l-5-times-the-minimum-dimension-

Measure--the--distance-from-the-projector-to-the-specimen7-the-area-of the-test-surface,-and-the-illumination-incident-on-the--test--surface; Measure--the--illumination--incident-on-the-receiver-due-to-reflection from-the-test-surface-at-each-angel-of-incidence--for--each--angle--of divergence----The--angles--of--incidence--shall--be-as-required-in-the applicable-reflectivity-table.--The-angles-of-divergence-shall-be--8.2 and--0-5--degrees----The-illumination-incident-on-the-test-surface-and the-receiver-shall--be--measured--in--the--same--units----Compute--the reflective-intensity,-R,-from-the-following-equation: Test-Procedure

Ellumination-incident-upon-the-receiver Reflective-intensity Br-td) Es-(A) <u>ال</u> ### ### Bs--Where---R--

Distance-in-feet-from-the-specimen-to-the-projectorray-at-the-specimen-position; -measured-in-the-same-units-as-Br-Area-in-square-feet-of-the-test-surface: incidence

Minimum-Reflective-Intensity-Values

Incidence-Angel-(4)

Bivergence-Angle-(⁴)

The-brightness-of-the-reflective-sheeting-when-totally-wety-shall--not 179 96 62 96 +30 θ£+ θ÷2 θ÷5 9-5

Yellow Yellow

be--less--than--90--percent--of--the--dry--values--shown--above---Wet performance--measurements--shail--be--made--on-unweathered-sheeting-in

The-reflective-intensity--under--simulated--rainfall--conditions--(Wet oerformancej-shałł-be-determined-as-fołłows-using-the-water-nozzie-and accordance-with-the-standard-rainfall-test-specified-below: Reflective-Intensity-Buring-Rainfall test-setup-shown-in-Pigure-2-

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upright-position-6-inches-(15-24-cm)-below-and-4-inches-(10-16-cm)--in Place--the--test--panels--on-which-the-sheeting-has-been-applied-in-an front-of-the-water-nozzie-as-shown-in-Pigure-2-

specimeny-determine--the--reflective--intensity,--at--angles--of-2 $^{
m a}$ divergence--and--minus--4ª--incidence-only7-as-specified-above7-except that-the-measurement-shall-be-made-on-each-specimen-and-the-reflective intensity--during--rainfall--shall--be--the--average--of---the---three Apply-sufficient-water-pressure-so-that-the-upper-surface-of-the-spray envelope--strikes--the-top-of-the-specimen---With-water-falling-on-the determinations:

Specular-Gloss ÷ΑΞ

ghe--reflective-sheeting-shall-have-an-85-degree-specular-gloss-of-not less-than-50-when-tested-in-accordance-with-ASTM-B-523-67-{1992};

A-9-inch-by-9-inch-(22-9-cm-by-22-9-cm)-reflective--sheeting--specimen specimen--piaced--on--a--fiat--surface-with-the-adhesive-side-up---Ten minutes-after-liner-is-removed-and-again-after-24-hoursy-the--specimen shall-be-measured-to-determine-the-amount-of-dimensional-change---The reflective-sheeting-shall-not-shrink-in-any-dimension-more--than--1/32 inch--(0.79--mm)--in-l0-minutes-nor-more-than-l/0-inch-(3.10-mm)-in-24 and-50-percent-relative-humidity---The-liner-shall-be-removed-and--the with--liner--shall-be-conditioned-a-minimum-of-l-hour-at-72ª-F-(23ª-6) Shrinkage hourst ٠A

The-reflective-sheeting;-with-the-liner-removed-and-conditioned-for-24 hours-at-72ª-P-(22ª-C)-and-with-50-percent-R:H;-shall-be--sufficiently flexible--to--show--no--cracking-when-slowly-bent-in-one-second-s-time around-a-1/8-inch-(3-2-mm)-mandrel---Note----Por-ease-of-testing-spread talcum-powder-on-adhesive-to-prevent-sticking-to-mandrel-Plexibility VI-1

VIII Adhesive

adhesive--backing-which-may-be-applied-without-necessity-of-additional The reflective sheeting shall include a precoated - pressure - sensitive adhesive-coats--on--either--the--reflective--sheeting--or--application

aggressive-tack-type-requiring-no-heat-solvent--or--other--preparation The--adhesive--backing--shall--be-a-pressure-sensitive-adhesive-of-the for-adhesive-to-smooth-clean-surfaces:

The -- protective -- liner -- attached -- the -adhesive - shall - be - removed - by peeling-without-soaking-in-water-or-other-solvents--without--breaking; hours-at-1680-F-(710-C)-under-a-pressure-of-2-5-pounds-per-square-inch iner-shail-be-easily-removed--following--accelerated--storage--for--4 tearing--or--removing--any--adhesive-from-the-backing---The-protective

The--adhesive--backing-of-the-reflective-sheeting-shall-produce-a-bond to-support-a-1-3/4-pounds-(8-39-kg)-mass-for-5--minutes,--without--the bond--peeling--for--a--distance-of-more-than-2:0-inches-{5:00-cm}-when applied-to-a-smooth-aluminum-surface-and-tested-as-specified-below:

Adhesion-Test---Subject-two-2-inch-(5.08-cm)-by-6-inch-(15.24-cm)

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DEPARTMENT OF TRANSPORTATION

NOTICE OF PROPOSED AMENDMENTS

Wiff. Impact-Resistance

phe---reflective---sheeting---materialy---applied---according--to--the
manufactureris-recommendations-to-a-cleanedy-etched-aluminum-panel--of
altoy--6661-967-0-40-inches-by-3-0-inches-by-5-inches-(+0-mm-by-7-6-cm
by-12-7-cm)-and-conditioned-for-24-hours-at--72n--p--(23n--07-and--50
percent--RHy--shalt--show--no--cracking--when-the-face-of-the-panel-is
subjected-to-an-impact-of-2-0-pound-(0-9-kg)--mass--with--a--5/0-inch
(15-9--mm)--rounded--tip--dropped--from--a--10-inch-pound-(1+13-joule)
setting-on-a-Gardner-Variable-Impact-Testery-IG-li20+

EX. Burability

Processed-and-appited-in-accordance-with-recommended--procedures--the reflective---material---shalt--be--weather--resistant--andy---foltowing cleaningy---shalt--show---no--apprectable---disolocationy---crackingy bitstering---anditensional---crackingy bitstering--or--dimensional--change--and--shalt--not--have-less-than-70 percent-of-the-specified-minimum-reflective--intrasity--values--(fable II)--when--subjected--to--accelerated--weathering--for--2200--hours-in accordance--with-ASTM-Standard-G23-69y--Fype-R-or--RH-Wentherometer-

Colorfastness

One-of-the-specimens-prepared-and-subjected-to-ncceternted--wenthering specified--above-shall-be-used-to-test-for-colorfastness--Wet-out-the specimen with a-mild-detergent and-water-solution-and-compare-it--with a-mild-land-compare-it--with daylight-or-artifical-unexposed-specimen--under--natural-(North-sky) daylight-or-artifical-daylight-having-a-color-temperature-of-7500--K-ghe-colorfastness-shall-bylight-having-a-color-temperature-of-7500--K-ghe-colorfastness-shall-bylight-or-a-follows-

Excellent---No-appreciable-change-in-color

Good---Perceptible-but-no-appreciable-change-in-color Pair---Appreciable-change-in-color

DEPARTMENT OF TRANSPORTATION

DEFINITION OF THE PROPERTY OF

NOTICE OF PROPOSED AMENDMENTS

Pungus-Resistance

Por--use--in-areas-where-fungus-growth-may-be-a-problem-and-if-deemed necessary-by-the-purchasery-fungus-resistance-shail-be--determined--as specified-hereinAfter--inoculation--with--the--test--organism;--Aspergillus-niger;-and incubation--for--14--days;--the--reflective--material--shall--show--no apprectable-formation-of--fungus-growth;---Any--formation-of--fungus growth--shall-benon-injurious-to-the-reflective-material-and-shall-be removable-by-wiping-with--a--soft--cloth;---After--completion-of--the retain-tho--and-after-bing-wiped-clean;-the-reflective-material-ball-tetain-the-full-reflective-intensity-values-as-specified-in-Fable--II; The--reflective--material-shall-mid-be-removable-from-the-test-panet without-damage:

Test-Ordanism

Gulture-Medium

The-culture-medium-shall-have-the-following-composition:

Mano KHPO Maso-7HO --15-0-gram Maso-7HO --05-gram Agar --15-0-gram

Distilled-water-to-make-ly000-ml-

harden-Enocutum

Add-about-10-mi-of-sterite,-distilled-water--contnining--about--0-005
percent--of-nontoxic-wetting-agent-to-a-subculture-(10-to-14-dnys-old)
of-the-test-organism-in-a-ripe,-fruiting-condition;--The-spores--shalt
be--forced-into-suspension-with-a-sterite-cnmells-hair-brush-(or-other
suitable-means)-and-diluted-to-100-mith-sterite,-distilled-water-

Preparation-of-Specimens

Cut-three-3-inch-by-3-inch-(7.62-cm-by-7.62--cm)--specimens--from--the
sample--and--apply--to--test--panels--with--the-reflective-surfnce-up-

NOTICE OF PROPOSED AMENDMENTS

Completely--immerse--the--test--specimens--in--a--leaching---tank---of continuously--flowing-water-for-24-hours-and-then-remove-and-dry---The water-entering-the-tank-shall-not-fall-directly-on-the--specimens--and leaching-tank-shall-be--large--enough--to--hold--an--amount--of--water shall--flow-at-a-rate-of-5-to-liters-per-hour---The-pH-of-the-water weighing--not--less--than=-50--times-the-weight-of-the-specimens---Phe shall-be-in-the-range-of-6-0-to-0-0

a--few--seconds;--rinse--in--distilled--water;-and-place-firmly-on-the surface-of-the-solidified-agar-medium-contained-in-the--petri--disheseach--dish----With--a--sterile--pipette,---distribute--1.0-to-1.5-ml-of inoculum-over-the-surface-of-each-specimen-and-the-surrounding-medium: Under-aseptic-conditions,-dip-each-specimen-in-70-percent-ethanol--for <u>Place-specimens-with-the-reflective-surface-facing-upy-one-specimen-to</u> **Froculation**

The-period-of-incubation-shall-be-l4-days-at-a-temperture-of-04-2ª--to 89-62-P-(292-to-322-8)-and-85-to-98-percent-relative-humidity-Incubation-Period

with-the-specimens-of-the-reflective-material-to-check--the--viability Yest--three--control-specimens-of-untreated₁-porous-grade-filter-paper of--the--inoculum.---At-the-end-of-the-incubation-period,-the-controls should-be-covered-with-fungus-growth;

visually--for--fungus-growth---Wipe-the-specimen-with-a-soft-cloth-wet with-a-70--percent--ethanol--solution----Condition--the--specimens--at standard--conditions--for--40-hours---Test-the-specimens-in-accordance Upon-completion--of--the--incubation--period;--examine--the--specimens with-Part-III;-Reflective-Intensity;-and--when--finished;--attempt--to remove-specimen-from-the-test-panel:

effective Reg. 111. 22 at (Source: Repealed

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DEPARTMENT OF HUMAN SERVICES

NOTICE OF ADOPTED AMENDMENTS

- Heading of the Part: Illinois Long-Term Care Partnership Program 7)
- 89 Ill. Adm. Code 688 Code Citation: 5)
- Adopted Action: Amended Amended Amended Amended Section Numbers: 688.10 688.20 688.30 688.40 3)
- and Statutory Authority: Partnership for Long-Term Care Act [320 ILCS 35] the Disabled Persons Rehabilitation Act (20 3(g) of 2405/3(9)]. Section 4)
- Effective Date of Amendments: March 13, 1998 2
- Does this rulemaking contain an automatic repeal date? No (9
- 8 Does this amendment contain incorporations by reference? 7
- Date Filed in Agency's Principal Office: March 5, 1998 8)
- Notice of Proposal Published in Illinois Register: 6

Ill. Reg. 2945 (issue date) 83 March 7, 1997,

- Has JCAR Issued a Statement of Objections to this (these) Rule(s)? No 10)
- Section proposal and final version: In Section "89 Ill. Adm. Code 687.200" to "89 Ill. Adm. Code and final 688.20(b)(1), changed Difference(s) between 682.200". 11)
- Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? 12)
- Will this rule replace an Emergency Rule(s) currently in effect? 13)
 - 14) Are there any amendments pending on this Part:
- Summary and Purpose of Rule(s): The Department is filing this rule to amend this Part to assure coordination of four State agencies who are partners in the Illinois Long-Term Care Partnership Program. The rules are being revised to respond to the legislative changes signed into law. Specifically, the word "demonstration" is removed from the rules and the Eligibility Requirements Section 688.20 is revised. 15)
- Information and answers to questions regarding this adorted rule shall be directed to: 16)

NOTICE OF ADOPTED AMENDMENTS

Bureau of Administrative Rules and Procedures Telephone number: (217) 785-9772 Springfield, Illinois 62762 Department of Human Services Susan Weir, Bureau Chief 100 South Grand Avenue East 3rd Floor, Harris Bldg. TTY: (217) 557-1547

The full text of Adopted Amendments begins on the next page:

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DEPARTMENT OF HUMAN SERVICES

NOTICE OF ADOPTED AMENDMENTS

CHAPTER IV: DEPARTMENT OF HUMAN SERVICES SUBCHAPTER d: HOME SERVICES PROGRAM TITLE 89: SOCIAL SERVICES

Illinois Long-Term Care Partnership Bemenstration Program PART 688

Authority and Purpose Section 688,10

Eligibility Requirement 688.20

Appeals 688.30

Scope of Services 688.40 AUTHORITY: Partnership for Long-Term Care Act [320 ILCS 35] and Section 3(9) of the Disabled Persons Rehabilitation Act [20 ILCS 2405/3(9)]. SOURCE: Adopted at 18 Ill. Reg. 11267, effective June 30, 1994; recodified from the Department of Rehabilitation Services to 18 994; recodified Scrvices at 21 Ill. Reg. 9325; amended at 22 Ill. Reg. 58 90 artment of Human Scrvices MAR 13 1998

Section 688.10 Authority and Purpose

- In conjunction with the Illinois Department on Aging, the Illinois is promulgated pursuant to Public Act 87-163, the Public Aid, Department of Insurance, and the Illinois Department of Part a)
 - The purpose of this regulation is to implement Public Act 87-163 and Public Act 89-525 through the establishment of a private/public This program will allow individuals who purchase private long-term care insurance that meets State standards, and who sustain extended periods of chronic illness that exhaust their private insurance benefits, to be eligible for continued in home support services through the Medicaid program based on their meeting specific resource eligibility requirements. Long-Term Care Insurance Demonstration Program. Partnership for Long-Term Care Act. p)

5890 = = Reg. 111. MAR 1 3 1998 (Source: Amended

effective

Section 688.20 Eligibility Requirement

Program benefits have been exhausted shall be considered eligible for the DHS An individual under age 60 whose Long-Term Care Partnership Bemonstration Home Services Program, as set forth in 89 Ill. Adm. Code 682 685-and-690, the following exceptions:

oints scored on the Determination of Need (DON) need only be at least 15 points on Part A of the DON, at least 10 points of which may be earned on the Mini-Mental State Exam (MMSE); and

NOTICE OF ADOPTED AMENDMENTS

Non-exempt assets:

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- cannot exceed the sum of qualifying insurance benefit payments made as the result of coverage under a Long-Term Care Partnership Insurance Policy as described in 50 Ill. Adm. Code 2018 provided that the person has received all of the qualifying insurance benefit payments that are payable under the policy plus non-exempt assets as contained within 89 Ill. Adm. Code 682.2001.
- shall be disregarded for a person who purchased a certified Long-Term Care Partnership Insurance policy with an amount of coverage equal to, or greater than, the average of 4 years of long-term care services in a nursing facility, provided that the person has received all the qualifying insurance benefit payments that are payable under the policy.
 - a) non-exempt--assets--eannot--execed--the--sum--of--qualifying-insurance benefit-payments-made-as-the-result-of-coverage-under-a-bong-Werm-Care Partnership-insurance-Policy-as-described-in-50-ill---Adm:--Code--2018 pius-non-exempt-rassets-as-contained-within-89-Ill--Adm:--Code--2018 pius-non-exempt-rassets-as-contained-within-89-Ill--Adm:--Code-687-2007
 - b) points-scored-on-the-Determination-of-Need-(190N)-need-only-be-at-least 15--points-on--Part--A-of-the-D0Ny-at-least-10-points-of-which-may-be-earned-on-the-Wini-Mental-State-Exam-(MMSB);

(Source: Amended at 22 Ill. Reg. 5890: cffective MAR131998...)

Section 688.30 Appeals

- a) Pursuant to 50 III. Adm. Code 2018.100 individuals under age 60 have the right to appeal a determination of ineligibility for benefits or a designated plan of care under the Long-Term Care Partnership Bemonstration Program by contacting DHS. These appeals will be conducted in accordance with 89 III. Adm. Code 510. The Level I Hearing Officers for appeals under this Section will be the HSP Advisors. Level II appeals will be heard pursuant to 89 III. Adm. Code 510.90.
 - b) Individuals who have reached 60 years of age or more may appeal a determination of ineligibility pursuant to 89 Ill. Adm. Code 250.300.

(Source: Amended at 22 III. Reg. 5890, effective

Section 688.40 Scope of Services

a) Individuals gualifying for the DHS Home Services Program, as the result of having participated in the Long-Term Carc Partnership Bemonstration Program, shall receive services as defined in 50 Ill. Adm. Code 2018.30, provided through the Partnership Bemonstration Program.

DEPARTMENT OF HUMAN SERVICES

NOTICE OF ADOPTED AMENDMENTS

b) Services provided through the Partnership Bemenstration Program cannot exceed the maximum payment levels described in 89 Ill. Adm. Code 682.250 685-6θθ.

(Source: Amended at $\frac{22}{\text{MAR} \, 13198}$) Ill. Reg. $\frac{5890 \text{ m}}{\text{MAR} \, 131998}$ effective

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NOTICE OF ADOPTED AMENDMENTS

Heading of the Part: Subacute Alcoholism and Substance Abuse Treatment Services

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- 2) Code Citation: 77 Ill. Adm. Code 2090
- 3) <u>Section Numbers: Adopted Action:</u>
 2090.20
 2090.35 Amendments
 2090.40 Amendments
- 4) Statutory Authority: Implementing and authorized by Section 5-10 of the Alcoholism and Other Drug Abuse and Dependency Act [20 ILCS 301/5-10].
- 5) Effective Date of Amendments: March 13, 1998
- 6) Does this rulemaking contain an automatic repeal date?
- 7) Does this rule amendment contain incorporations by reference? Yes
- 8) Date Filed in Agency's Principal Office: March 5, 1998
- 9) Notice of Proposal Published in Illinois Register: October 24, 1997, 21 Ill. Reg. 13993
- 10) Has JCAR Issued a Statement of Objections to this (these) Rule(s)? No
- 11) Difference(s) between proposal and final version: In Section 2090.35(c)(3) updated the CFR to 1997.
- 12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreement letter issued by JCAR? Yes
- 13) Will this rule replace an Emergency Rule(s) currently in effect?
- 14) Are there any amendments pending on this Part: No
- Methadone, who are eligible for Medicaid, to participate in out-patient treatment and have such treatment reimbursable through Medicaid up to the established limit. This amendment will not allow reimbursement for individual or group counseling and would not provide coverage for the actual cost or dispensing of the Methadone. Several changes are also made in order to make Part 2090 consistent with the provisions contained in Part 2060, the new substance abuse treatment and intervention licensing rule, which was adopted October 3, 1996. These amendments relate to the manner in which Level II care can be delivered on a daily basis and the group size reimbursement limitations.

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NOTICE OF ADOPTED AMENDMENTS

16) Information and answers to questions relarding this adopted rule shall be directed to:

Ms. Susan Weir, Bureau Chief
Bureau of Administrative Rules and Procedures
Department of Human Services
100 South Grand Avenue East
3rd Floor, Harris Bldg.
Springfield, IL 62762
(217) 785-9772
TTY: (217) 557-1547

The full text of Adopted Rule(s) begins on the next page:

NOTICE OF ADOPTED AMENDMENTS

SUBCHAPTER 9: MEDICAID PROGRAM STANDARDS CHAPTER X: DEPARTMENT OF HUMAN SERVICES TITLE 77: PUBLIC HEALTH

SUBACUTE ALCOHOLISM AND SUBSTANCE ABUSE TREATMENT SERVICES PART 2090

Medicaid Certification/Enrollment/Recertification Sanctions for Non-Compliance/Audits (Renumbered) Sanctions for Non-Compliance/Audits Inspections (Renumbered) Reimbursable Services General Requirements Quality Improvement Client Records Rate Setting Rate Appeals Definitions Inspections 0000110 2090.100 2090.105 2090.35 2090.50 2090.60 2090.70 2090.80 2090.90 2090,30 2090.40 2090.10 2090.20

Alcoholism and AUTHORITY: Implementing and authorized by Section 5-10 of the Other Drug Abuse and Dependency Act $\{20~{\rm ILCS}~301/5-10\}$.

amendments at 15 Ill. Reg. 10222, effective June 25, 1991, for a maximum of 150 days; amended at 15 Ill. Reg. 16662, effective November 1, 1991; amended at 16 III. Reg. 11807, effective July 14, 1992; amended at 18 III. Reg. 14223, effective September 2, 1994; amended at 19 III. Reg. 9411, effective July 1, 1995; emergency amended at 19 III. Reg. 10454, effective July 1, 1995; emergency amendment at 20 111. Reg. 12489, effective August 30, 1996, for a maximum of 150 days; amended at 21 111. Reg. 1600, effective January 27, 1997; recodified Human Services at 21 Ill. Reg. 9319; emergency amendment at 21 Ill. Reg. 14087, effective October 9, 1997, for a maximum of 150 days; amended at 22 Ill. Reg. amendments at 12 Ill. Reg. 11273, effective June 30, 1988, for a maximum of 150 days; amended at 12 Ill. Reg. 20061, effective November 26, 1988; emergency from the Department of Alcoholism and Substance Abuse to the Department of SOURCE: Adopted at 11 Ill. Reg. 2236, effective January 14, 1987; emergency MAR 1 3 1998-5895, effective

Section 2090.20 Definitions

The following definitions shall apply to this Part:

person who is at least twelve years of age and under eighteen years of age. "Adolescent": A

"Benefit Year": The State fiscal year.

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DEPARTMENT OF HUMAN SERVICES

NOTICE OF ADOPTED AMENDMENTS

Medical Assistance, No Grant (MANG); Refugee the following categories: Aged, Blind, and Disabled (AABD); Temporary Assistance for Needy Families (TANF) Aid-to--Pamilies--with--Bependent and Family Services (DCFS) wards; and persons under the age of but do not qualify as Any person who is eligible to receive services under one of Repatriate Program (RRP); Title XIX eligible Department of eighteen who would qualify for TANE AFBE but do no dependent children pursuant to 89 Ill. Adm. Code 140.7. Children---(APBC);

"Department": The Illinois Department of Human Services Atcoholism and-Substance-Abuse.

use--of--methadone,-bevo-alphacetyimethadoi-(bAAM)-or-other-drugs-used "Brug-free-treatment";--Treatment-service-which-does-not--include--the for-substance-abuse-treatment= "Follow-up": A scheduled provider contact with a former client that occurs after the client has been discharged, has been previously occurs for a period of time and at specified intervals. Follow-up is necessary to maintain and improve upon the clinical specified in the client's treatment and continuing care for the purpose of offering the discharged client goals achieved during treatment. assistance as

"Physician": A person who is licensed to practice medicine in all its branches under the Medical Practice Act of 1987 [225 ILCS 60].

"Professional Staff": Any person who provides clinical services as defined in 77 Ill. Adm. Code 2060 and who meets the requirements for may also be a person determined to be appropriate Code 2060.309. to deliver the clinical services provided, in accordance with 77 Ill. professional staff as specified in 77 Ill. Adm. Adm. Code 250, Subpart W. Professional staff

alcoholism or other drug abuse services institution, or unit of State or local government or other legal enrolled to provide treatment services under the Illinois Medical organization, according to the requirements specified in 77 Ill. Adm. Code 2060 private agency, public or entity licensed to deliver Assistance Program. "Provider": Any

branches under the Medical Practice Act of 1987 [225 ILCS 60] and who meets the requirements of Section 1-121 of the Mental Health and "Psychiatrist": A person licensed to practice medicine in all Developmental Disabilities Code [405 ILCS 5/1-121].

effectively treat an a chemical without "Subacute": The level of care necessary to alcohol and/or other drug abuser's dependency on

NOTICE OF ADOPTED AMENDMENTS

Subacute care may be delivered in a facility licensed under the rules for Alcoholism and Substance Abuse Treatment and Intervention Licenses Code 2060) or in a hospital, either of which is more intensive measures designed to treat primary medical conditions in an acute care setting (e.g., inpatient hospitalization). certified according to Section 2090.30 for purposes of reimbursed alcoholism and/or other drug abuse services. (77 Ill. Adm.

"Treatment Plan": An individually written plan for a client which identifies the treatment goals and objectives based upon a clinical of the client's individual problems, needs, strengths and assessment

provided under the direct supervision of a physician who is on staff and "Under the direction of a physician": Treatment services continuously directs the provision of care.

ЫI Reg. 111. (Source: Amended at MAR 1 9 1999

effective

Section 2090.35 General Requirements

treatment services shall be in compliance with 77 Ill. Adm. Code To be reimbursable, treatment services shall be provided in compliance all provisions specified in 77 Ill. Adm. Code 2060. involvement 2060.417, 2060.419, 2060.421, 2060.423 and 2060.425. staff Specifically, physician and professional a)

unless there is good cause for later submission. In any event, if a State Fiscal Year lapse period, the provider must pursue reimbursement through the Court of Claims. Claims submitted later than 12 months be submitted as soon after the service date as is reasonable clean claim for a service provided within a State fiscal year is not submitted to the State on a timely enough basis to be paid within the from the date of service shall not be reimbursed by the State. The provider shall submit Medicaid claims on a timely basis. provider shall only bill for services which are reimbursable. Information Collection q ς O

and Tracking System (DARTS). The data collected shall be for the purpose of assessing individual client performance and for reported by the provider, for each individual served by a program The provider shall report, on a monthly basis, demographic and service system data using the Department's Automated Reporting certified under Section 2090.90 of this Part, shall include planning for future service development. is not limited to the following:

A) Name, date of birth, gender, race and national origin, family size, income level, marital status, residential address, employment, education and referral source.

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NOTICE OF ADOPTED AMENDMENTS

- Special population designation, such as Medicaid eligible clients, women with dependent children, intravenous drug users (IVDUs), DCFS clients, DHS BMHBB clients, and criminal justice clients. B)
- Drug/alcohol problem areas treated, characterized by of use, frequency of use, and medical diagnosis.
- Closing date information, such as the reason for discharging the client from the program. á
 - The Department shall supply providers with DARTS software. 2)
- Confidentiality of Alcohol and Drug Abuse Patient Records (42 CFR Disclosure of information contained within DARTS is governed by requlations federal provisions of 2 (1997)(±987)). specific
- reimbursement limits herein shall not be applied in situations where to do so would deny an eligible individual under age 21 from receiving "early and periodic screening, diagnostic and treatment services" (ESPSDT) as defined in 42 USC 1396d(r). Services as set forth in this Part shall be reimbursable to an eligible individual under age 21 for as long as the services are clinically necessary to review which is consistent with subsection (a) of this pursuant Section. q)
- be clinically necessary pursuant to review which is consistent with until the services are no longer clinically necessary, whichever comes would deny services to a pregnant woman that have been determined to subsection (a). This exemption from the limits exists during the pregnancy and through the end of the month in which the 60-day period following termination of the pregnancy ends (post partum period), or first. This exemption shall not apply to a woman who enters treatment The reimbursement limits herein shall not be applied where to services after delivery. е е

111. WAR 1 3 1998 (Source: Amended at

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effective

Reimbursable Services Section 2090.40 Level I: (formerly Outpatient Services) a)

1) Definition

of treatment services as defined in 77 Ill. Adm Code 2060.401(b). The provision

Medicaid-reimbursable via the prospective rates in effect as of the date of service (89 Ill. Adm. Code 148.370). Medicaid claims are submitted to the Department and shall meet the requirements of IDPA rules for alcoholism and substance abuse treatment programs (89 Ill. Adm. Code 148.340 through 148.370). The billable outpatient unit of service is a client hour defined as Level I drug-free treatment services delivered to clients are Reimbursement 2)

NOTICE OF ADOPTED AMENDMENTS

Reimbursement shall occur by a of service, billable to the nearest quarter-hour. No more than 25 hours may be reimbursed for an eligible adult client per fee-for-service mechanism, using one client hour as the base unit face-to-face counseling with a diagnosed client in an individual, group, or family setting. benefit year.

b) Level II: (formerly Intensive Outpatient Services)

1) Definition

The provision of treatment services as defined in 77 Ill. Adm. Code 2060.401(c).

Reimbursement 5)

claims are submitted to the Department, and shall meet the Medicaid reimbursable via the prospective rates in effect as of the date of service (89 Ill. Adm. Code 148.370). Drug-free treatment as referenced herein is that which does not include the requirements of IDPA rules or alcoholism and substance abuse Code 148.340 through 148.370). Reimbursement shall occur by a fee-for-service mechanism, using Services for clients enrolled in Level II (intensive outpatient) treatment (outpatient) services. No more than 75 hours shall be reimbursed Level II drug-free treatment services delivered to clients are one client hour as the session-of-a-minimum-of-three-hours-as-the shall not be reimbursed under the provisions for Level I use of Methadone or levo-alphacetylmethadol (LAAM). base unit of service billable to the nearest hour. for an eligible adult client per benefit year. programs (89 Ill. Adm.

c) Level III: (formerly Inpatient/Residential Services) 1) Definition-Adolescent Residential Rehabilitation

facility, either of which is accredited by the Joint Commission on Accreditation of Health Care Organizations (JCAHO), One psychiatric facility or an inpatient program in a psychiatric drug-free for adolescents on a scheduled-only residential basis in a Medicaid enrolled hospital subacute setting, or to adolescents in a 60181. Drug-free treatment as referenced herein is that which does not This service is designed to reduce or eliminate an adolescent's The provision of treatment services as defined in 77 Ill. Adm. Illinois include the use of Methadone or levo-alphacetylmethadol Such treatment shall be Terrace, intake of alcohol and/or other drugs. Oakbrook Renaissance Boulevard, 2060.401(d).

accordance with an adolescent's individualized treatment plan recommended by a physician if in a hospital setting, and under Adolescent residential rehabilitation must be delivered the direction of a physician if in a psychiatric facility. prospective rates in effect as of the date of service (89 Ill.

delivered to clients are medicaid reimbursable

rehabilitation

residential

Reimbursement

5 1

Adolescent

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Code 148.370). Medicaid claims are submitted to the alcoholism and substance abuse treatment programs (89 Ill. Adm. Code 148.340 through 148.370). Reimbursement shall occur on a in an adolescent residential rehabilitation program with over 16 beds shall not be reimbursed under the provisions for Level I (outpatient) or Level II Department and shall meet the requirements of IDPA rules Services (intensive outpatient) services. basis.

Definition-Day Treatment 3)

scheduled-only residential basis by a program licensed pursuant to 77 Ill. Adm. Code 2060 and certified as having 16 beds or fewer as specified in Section 2090.30 of this Part and excluding room and board, meals, night supervision of dormitory areas and domiciliary support services. Drug-free treatment as referenced herein is that which does not include the use of Treatment services The provision of treatment services as defined in 77 Ill. Adm. services Methadone or levo-alphacetylmethadol (LAAM). treatment may be provided to adults and adolescents. Drug-free 2060.401(d). Code

Day treatment services shall be reimbursed at an all-inclusive per diem rate as set forth in Section 2090.70(c)(4), available upon certification of the facility. No more than 30 days shall be reimbursed for an eligible adult client.

Ancillary Psychiatric Diagnostic Services q)

1) Ancillary psychiatric diagnostic services are limited psychiatric evaluations to determine whether the client's primary condition is attributable to the effects of alcohol or drugs or to a evaluation shall determine the client's primary condition and diagnosed psychiatric or psychological disorder. recommend appropriate treatment services.

Reimbursable psychiatric evaluations are limited to a psychiatric evaluation/examination of a client and the exchange of information with the primary physician and other informants such counseling staff, or family members and the This service shall be performed by a preparation of a report including psychiatric history, status, and diagnosis. nurses, psychiatrist. 5)

Reimbursable psychiatric evaluations may be delivered to clients admitted to Levels I, II and III care (adolescent residential rehabilitation or day treatment) where the need for such services of all such services shall be maintained in the is documented in the client's individualized treatment plan. Documentation client record. 3)

Medicaid-reimbursable on a per-encounter basis at the practitioner's usual and customary charge, not to exceed the prevailing rate as established by IDPA pursuant to 89 Ill. Adm. clients ţ, delivered services Ancillary diagnostic Code 140.400. 4)

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DEPARTMENT OF HUMAN SERVICES

NOTICE OF ADOPTED AMENDMENTS

(Source: Amended

effective 5895== Reg. 111. MAR 1 3 1999-)

DEPARTMENT OF NUCLEAR SAFETY

NOTICE OF ADOPTED AMENDMENTS

- Heading of the Part: Use of X-Rays in the Healing Arts Including Medical, Dental, Podiatry, and Veterinary Medicine 1
- 32 Ill. Adm. Code 360 Code Citation: 5)
- Adopted Action: Amendment Section Number: A B APPENDIX APPENDIX APPENDIX APPENDIX TABLE A TABLE B 360,120 360.100 360.110 360.20 360.30 360.40 360.50 360.71 360.75 360.90 360.60 360.10 3)
- Radiation the Statutory Authority: Implementing and authorized by Protection Act of 1990 [420 ILCS 40]. 4)
- Effective Date of Amendments: March 13, 1998 2)
- Does this rulemaking contain an automatic repeal date? No (9
- Yes Does these amendments contain incorporations by reference? 7)
- March 6, 1998 Date filed in Agency's Principal Office: 8

Notice of Proposal Published in the Illinois Register:

6

November 7, 1997 (21 Ill. Reg. 14423)

- Has JCAR issued a Statement of Objections to these Amendments? No 10)
- The following changes <u>Differences between proposal and final version:</u> The followir were made in response to comments and suggestions of the Joint on Administrative Rules: 11)
- In Section 360.20, in the Definition of "Source Skin", strike the hyphen and add "to". a)

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add: In Section 360.71(e)(3), after the Agency Note, (q

Springfield, Illinois 62704. Copies of this report may also be obtained from the American College of Radiology, 1891 Preston White inspection at the Department of Nuclear Safety, 1035 Outer Park Drive, is available report of this A copy Drive, Reston, VA 22091. "AGENCY NOTE:

- In Section 360.71(j)(5), strike the Agency Note. ΰ
- The Department has Have all the changes agreed upon by the agency and JCAR been made made all the changes to which it agreed with the Joint Committee. indicated in the agreement letter issued by JCAR? 12)
- effect? Will these amendments replace an emergency amendment currently in 13)
- 14) Are there any amendments pending on this Part?
- experience requirements for a "diagnostic imaging specialist"; (2) add a new subsection in Section 360.30 which would require registrants to verify that individuals who are required to be accredited by 32 Ill. Adm. Code 401 to perform medical radiography actually are properly accredited with clarity and delete the requirement for numeric indicators; (6) add requirements in Section 360.71 to implement a legislative mandate relating to the distribution of mammography pamphlets; (7) delete the reference to Section 360.60(a)(1) in Section 360.100(a)(3)(A) which will allow correct the phrase "qualified nondepartment inspector" to reflect the statutory language of "nondepartment qualified inspector" everywhere it (9) change the breast and phantom thicknesses American College of Radiology; (10) update incorporations by reference to the Joint Committee on Administrative the Department; (3) clarify and update terminology in this Part; (4) add limit radiation doses; (5) reorganize the provisions of Section 360.60 for throughout the rule from 4.5 to 4.2 to meet the revised standards of the Summary and Purpose of Amendments: This Amendment will: (1) clarify the veterinarians to use a non-independent stepless adjustable collimator; (8) provisions in Sections 360.50 and 360.90 to allow the use of distance the latest editions; and (11) change references throughout meet the format requirements of appears in the rule; 15)
- 16) Information and questions regarding these amendments shall be directed to:

Department of Nuclear Safety Springfield, Illinois 62704 1035 Outer Park Drive Senior Staff Attorney

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The full text of the Adopted Amendments begins on the next page:

DEPARTMENT OF NUCLEAR SAFETY

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CHAPTER II: DEPARTMENT OF NUCLEAR SAFETY SUBCHAPTER b: RADIATION PROTECTION TITLE 32: ENERGY

USE OF X-RAYS IN THE HEALING ARTS INCLUDING MEDICAL, DENTAL, PODIATRY, AND VETERINARY MEDICINE PART 360

Section

Mobile/Portable Radiographic Systems Other Than Systems Used Solely General Equipment and Operation Requirements for Diagnostic X-Ray Veterinary or Additional Requirements for Use of Diagnostic X-Ray Systems in the Entrance Exposure Limits Per Intraoral Bitewing Film (Repealed) Medical Radiographic Entrance Exposure Measurement Protocol Thimble and Pancake Chamber-Radiation Measuring Devices Minimum Quality Control Program for Medical Accelerators Additional Requirements for Facilities Performing Mammography Radiographic Systems Other Than Fluoroscopic, Dental, Mammography Dose Evaluation Graph (Repealed) Healing Arts of Medicine, Podiatry and Chiropractic Half-Value Layer as a Function of Tube Potential Computed Tomography Dose Measurement Protocol General Requirements and Administrative Controls Therapy Systems Operating at 1 MeV or Greater Mammography Dose Measurement Protocol Mammography Phantom Image Evaluation Therapy Systems Operating Below 1 MeV Photofluorographic Systems (Repealed) Mammography Dose Evaluation Table Computed Tomography (CT) Systems Veterinary Radiographic Systems Dental Radiographic Systems Computed Tomography Systems for Mammography (Repealed) Fluoroscopic Systems Definitions ILLUSTRATION A B ILLUSTRATION APPENDIX E APPENDIX C APPENDIX D APPENDIX APPENDIX 360.120 TABLE C 360.110 360.100 360.80 360.75 360.90 360.10 360.20 360.30 360.40 360.41 360.50 360.60 360.70 360.71 TABLE

AUTHORITY: Implementing and authorized by the Radiation Protection Act of 1990 [420 ILCS 40].

transferred to the Department of Nuclear Safety by P.A. 81-1516, effective December 3, 1980; codified at 7 Ill. Reg. 16406; amended at 10 Ill. Reg. 13271, effective July 28, 1986; amended at 13 Ill. Reg. 803, effective April 1, 1989; amended at 15 Ill. Reg. 6180, effective April 16, 1991; amended at 17 Ill. Reg. 17972, effective October 15, 1993; amended at 18 Ill. Reg. 11524, effective SOURCE: Filed April 20, 1974 by the Department of Public Health; old rules repealed, new rules adopted at 4 Ill. Reg. 25, p. 157, effective July 1, 1980;

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December 30, 1994, for a maximum of 150 days; emergency expired May 30, 1995;

at 19 Ill. Reg. 8284, effective June 12, 1995; amended at 22 Ill. Reg.

5904 E, effective

July 11, 1994; emergency amendment adopted at 19 Ill. Reg. 278, effective

NOTE: In this Part, superscript numbers or letters are denoted by parentheses; subscript are denoted by brackets.

Section 360.10 Scope

of x-ray by veterinarians by virtue of the Veterinary Medicine and Surgery Practice Act of 1983 (###:-Rev:-Stat:-1994;-ch:-###;-700#-et-9eq-; [225 ILCS 115]. The provisions of this Part are in in the healing arts by a practitioner licensed to practice a treatment 2304-et-seq:) [225 ILCS 25], or the Podiatric Medical Practice Act of 1987 (filt.--Rev.--Stat.--1991,-ch.-lilt-pars.-4001-et-seq.) [225 ILCS prescription or direction of such licensed person or the non-human use This Part establishes requirements for use of x-ray producing devices human ailments by virtue of the Medical Practice Act of 1987 (#144-Rev:-Stat:-1991,-ch:-111,-pars:-4401-1-et-seq:} [225 ILCS 60], the Illinois Dental Practice Act (filt.-Rev.-Stat.-1991,-ch.-111,-pars. 100], or by a medical radiographer or radiation therapist accredited in accordance with the provisions of 32 Ill. Adm. Code 401.100 or an ρλ Part, acting under the supervision, addition to, and not in substitution for, other applicable provisions individual exempt from the provisions of 32 Ill. Adm. Code 401, of 32 Ill. Adm. Code 310, 320, 340, 400 and 410. that of 401.30

It is recognized that some installations and equipment designed before achieve minimum doses. Request for exemption from some the adoption of this Part, coupled with conditions of use, may be provisions of this Part will be considered in accordance with 32 Ill. Adm. Code 310.30(a). adequate to p)

111. 22 MAR 1 3 1998 Amended (Source:

59 0 4 =, - effective Reg.

Section 360.20 Definitions

As used in this Part, the following definitions apply:

machine capable of producing a useful beam of x-rays or charged "Accelerator" (also "particle accelerator") means any therapeutic Accelerators include particles with energies of 1 MeV or greater. cyclotrons, betatrons and linear accelerators.

particle accelerators are installed and are operated under the same OL "Accelerator facility" means the location at which one administrative control.

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affording the same attenuation, under specified conditions, as the in question. The nominal chemical composition of type 1100 equivalent" means the thickness of type 1100 aluminum alloy aluminum alloy is 99.00 percent minimum aluminum, 0.12 percent copper.

of treatment field at a given distance from the source of the beam. determines the extent "Applicator" means a structure which

"Attenuation block" means a block or stack, having dimensions 20 centimeters by 20 centimeters by 3.8 centimeters, of aluminum Copper may be substituted for aluminum if an appropriate thickness is used for the kVp selected, as indicated below: equivalent.

Millimeters of Copper Equivalent to 3.8 centimeters of aluminum 2.0 3.0 greater than 125 99 or less 100 to 125 kVp

'Automatic exposure control" means a device which automatically obtain at a location(s) a required quantity of radiation (see in order to controls one or more technique factors 'Phototimer"). preselected

'Barrier" (see "Protective barrier").

which passes through the opening in the beam limiting device and which is "Beam" means a flow of electromagnetic or particulate radiation used for diagnosis or treatment.

'Beam axis" (see "Central axis of the beam").

"Collimator", a means provides dimensions of the x-ray field (see device which "Beam-limiting device" means a "Diaphragm" and "Shutter"). the restrict

"Beam monitoring system" means a system of devices that will monitor the useful beam during irradiation and will terminate irradiation when a preselected number of monitor units has been accumulated. "Beam scattering filter" means a filter placed in an electron beam in order to scatter the beam and provide a more uniform distribution electrons in the beam.

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"Central axis of the beam" means the line passing through the source the edge of the of the beam and the center of the plane formed by first beam-limiting device.

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'Charged particle beam" (see "Beam").

"Coefficient of variation" means the ratio of the standard deviation to the mean value of a population of observations.

beam 'Collimator" means a device or mechanism by which the x-ray restricted in size (see "Beam-limiting device"). "Computed tomography (CT)" means the production of a tomogram by the acquisition and computer processing of x-ray transmission data. "Computed tomography dose index (CTDI)" means the integral of the dose profile along a line perpendicular to the tomographic plane divided by the product of the nominal tomographic section thickness and the number of tomograms produced in a single scan.

50 therapy system" means an x-ray system used for therapy which is designed for very short treatment distances (5 centimeters or less), usually employing peak tube potentials in the range of 20 to "Control panel" means that part or parts of the x-ray system upon which are mounted the switches, knobs, pushbuttons and other hardware necessary for setting the technique factors prior to initiating an x-ray exposure.

detectors and the supporting structures and frames which hold these "CT gantry" means the tube housing assemblies, beam-limiting components. "Dead-man switch" means a switch constructed so that a circuit-closing contact can be maintained only by continuous pressure on the switch by the operator. "Densitometer" means a device which is used to provide a quantitative measurement of the optical density of x-ray film to determine the response of the film to exposure and development.

of "Diagnostic imaging specialist" means a person who possesses the principles imaging specialist shall meet one of the two criteria below: to apply the radiological physics to diagnostic x-ray applications. training and experience

Be certified by the American Board of Radiology, the American Board of Medical Physics or the Canadian College of Medical

Diagnostic radiological physics; or

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Radiological physics.

qualified inspector pursuant to the provisions of 32 Ill. Adm. qualified nondepartment approved by the Department as a Code 410.30, and: Be

Have 3 years of experience performing radiation measurements quality assurance duties in mammography and/or computed tomography for-diagnostic-imaging-facilities; or

Have 2 years of experience performing radiation measurements and quality assurance duties in mammography and/or computed and have undertaken a training program of at least 40 hours that 7--conducted--by--a--dragnostic--imaging assurance procedures and the requirements of this Part. specialist, ---and--which includes instruction

and/or computed tomography, the nondepartment qualified To qualify as a diagnostic imaging specialist in mammography ins ector's experience shall have been obtained in the field for which approval is sought. AGENCY--NOTE:--A--person--performing--physics--duties--for-a diagnostic-facility-should-have-experience-in-the-same-field for-which--the--duties--are--performed:----For--example;--an individual---providing--support--to--mammography--facilities should-have--3--years--of--mammography--experience----is recognized--that--3--years-of-experience-for-various-imaging modalities-could-be-gained-concurrently-

housing assembly, diagnostic x-ray applications, with "Diagnostic source assembly" means an x-ray tube beam-limiting device attached. in nse for

"Diaphragm" means a device or mechanism by which the x-ray beam is restricted in size (see "Beam-limiting device").

of a useful beam of x-rays at a specified filter" means a filter used to provide uniformity over the area "Field flattening

on energy level or to modify the in the useful beam to absorb, radiations based means material placed spatial distribution of the beam. preferentially, "Filter"

allowing and system supporting possible movements of the radiation head. the of part "Gantry" means that

purpose x-ray system" means any radiographic x-ray system "General

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is not limited to radiographic examination of specific anatomical regions. which, by design,

"Gonad shield" means a protective device for the testes or ovaries which provides a minimum of 0.5 millimeter lead equivalent protection. "Half-value layer (HVL)" means the thickness of a specified material of radiation to an extent such that the exposure rate is reduced to one-half of its original value. that attenuates the beam

AGENCY NOTE: The contribution of all scattered radiation, other than any that might be present initially in the beam concerned, should be

when such examinations are not specifically ordered by a licensed practitioner of the healing arts legally authorized to prescribe such x-ray machines for the detection or evaluation of potential diseases healing arts screening does not include mammography on self-referred x-ray examinations for the purpose of diagnosis or treatment, However, "Healing arts screening" means the examination of human beings

"Image intensifier" means a device, installed in a housing, which converts an x-ray pattern into a corresponding light image, usually by electronic means.

radiographic film, which transforms incident x-ray photons either into Or a visible image or into another form which can be made into a visible "Image receptor" means any device, such as a fluorescent screen image by further transformations.

occurrence of an event or condition is required before a second event "Interlock" means a device arranged or connected such that or condition can occur or continue to occur.

smallest sphere through which the central axis of the useful beam "Isocenter" means a fixed point in space located at the center of passes at any beam orientation.

electric potential applied to the x-ray tube between the cathode and οĘ "Kilovolts peak (kVp)" means the crest value, in kilovolts, anode of a pulsating electric potential generator.

attenuation, under specified conditions, as the material in question. lead affording the thickness of "Lead equivalent" means the

"Leakage radiation" means all radiation emanating from the diagnostic source assembly except for:

The useful beam; and

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not 13 The radiation produced when the exposure switch or timer activated.

They technique factors" means the technique factors used to measure leakage radiation from the diagnostic source assembly. are defined as follows: "Leakage

hour for operation at the maximum-rated peak tube potential with capacitor energy storage equipment, the maximum-rated peak tube potential and the maximum-rated number of exposures in l 10 milliampere-seconds, or the minimum obtainable from the unit, the quantity of charge per exposure being 10 millicoulombs,

maximum-rated peak tube potential and the maximum-rated number of x-ray pulses in 1 hour for operation at the maximum-rated peak pulsed operation, For field emission equipment rated for tube potential. For all other equipment, the maximum-rated peak tube potential for the current the maximum-rated continuous tube maximum-rated peak tube potential.

parallel to and including the plane of the image receptor. The edge from the beam-limiting device and any one of the sets of planes of the light field is defined as the locus of points at which the illumination is 25 percent of that at the center of the light field. the light "Light field" means that area of the intersection of of the light field is

"Mammography" means radiography of the breast for the purpose of a physician to determine the presence, size, location and extent of cancerous or potentially cancerous tissue in the breast. "Mammography phantom" means a phantom specifically designed for image quality evaluation of mammography systems and which may also be used centimeter compressed breast of average density (i.e., 50 percent adipose and 50 percent glandular tissue), and shall contain masses, in the process of determining the mean glandular breast dose. It shall specks and fibers as specified in Section 360.71(j)(2) of this Part. be any phantom material that is equivalent to a nominal

"Mammography system System" means an x-ray system that is used to perform mammography. 'Medical radiographer" means a person other than a licensed practitioner, accredited in accordance with the provisions of 32 Ill. Adm. Code 401, or an individual exempt from the provisions of 32 Ill. Adm. Code 401, who performs medical radiation procedures and applies

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diagnostic purposes while under the supervision of a licensed practitioner. x-radiation, to any part of the human body, for

Mobile equipment" (see "X-ray equipment").

'Monitor unit" means a unit response from the beam monitoring system from which the absorbed dose can be calculated.

displacement of the useful beam relative to the patient. Moving beam therapy includes arc therapy, skip therapy and rotational beam "Moving beam therapy" means radiation therapy in which there

center of a series of scans, specified at the center of the axis of 'Multiple scan average dose (MSAD)" means the average dose at rotation of a computed tomography system. "Operator" means an individual who applies ionizing radiation for diagnostic or therapeutic purposes. "Phototimer" means a method for controlling radiation exposures to image receptors by the amount of radiation which reaches a radiation monitoring device(s). The radiation monitoring device(s) is part of an electronic circuit which controls the duration of time the tube activated (see "Automatic exposure control").

'Physicist" (see "Therapeutic radiological physicist").

Portable equipment" (see "X-ray equipment").

establish a 'Position indicating device" means a device on intraoral dental x-ray equipment used to indicate the beam position and to definite source-skin distance.

'Primary protective barrier" (see "Protective barrier").

least 0.25 millimeter lead equivalent, used to reduce exposure from 'Protective apron" means an apron of radiation absorbing materials, at leakage and scatter radiation.

used to reduce radiation dose. The types of protective radiation oĘ barrier "Protective barrier" means a parriers are as follows: material(s)

filters, placed in the useful beam to reduce the radiation dose. "Primary protective barrier" means the material,

"Secondary protective barrier" means a barrier sufficient to

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required the to scatter radiation attenuate the leakage and absorbing to reduce radiation materials, at least 0.25 millimeter lead equivalent, used oŧ a glove made dose from leakage and scatter radiation. means glove" "Protective

"Radiation beam" (see "Beam").

to be exposed during radiation therapy and confirming the position and a radiographic/ fluoroscopic x-ray system used exclusively for localizing the means system" size of thehe therapeutic irradiation field. simulation therapy "Radiation

"Radiologist" means a physician or veterinarian who is either:

in diagnostic of Radiology the American Board radiology or general radiology; Certified by

Certified by the American Osteopathic Board of Radiology;

Certified by the American Chiropractic Board of Radiology;

Certified by the American College of Veterinary Radiology; or

Board identified or College Eligible for certification by any above. "Reference plane" means a plane which is displaced from and parallel to the tomographic plane. "Scan" means the complete process of collecting x-ray transmission be collected simultaneously during a single scan for the production of one or more Data can tomogram. ď data for the production of

patient support device with respect to the CT x-ray system between "Scan increment" means the amount of relative displacement of the successive scans measured along the direction of such displacement.

that, during passage through radiation matter, has been deviated in direction. radiation" means

'Secondary protective barrier" (see "Protective barrier").

stability of film processing procedures and equipment by providing a "Sensitometer" means a device which is used to test the setup and standard pattern of light exposure of x-ray film.

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"Shadow tray" means a device attached to the radiation head to support auxiliary beam-limiting material.

usually made of lead, fixed to an x-ray tube housing to intercept or device, or attenuating collimate the useful beam (see "Beam-limiting device"). "Shutter" means an adjustable beam-limiting

"SID" means source-image receptor distance (see "Source-image receptor distance").

'Source" means the focal spot of the x-ray tube.

"Source-image receptor distance" means the distance from the source to the center of the input surface of the image receptor. distance measured along the central ray from the center of the front surface of the x-ray focal spot to the surface of the irradiated object. 'Source to - skin distance (SSD)" means the

radiographic x-ray system which, by design, is limited to radiographic examination of a specific anatomical region, or to the extremities collectively. "Special purpose x-ray system" means any

film" means a radiograph which is made during a fluoroscopic examination to permanently record conditions which exist during that fluoroscopic procedure. "Stationary beam therapy" means radiation therapy in which there is no displacement of the useful beam relative to the patient during irradiation.

'Stationary equipment" (see "X-ray equipment").

current (milliamperes), exposure time parameters (seconds or pulses) or a combination thereof, selectable at the control panel of an x-ray $\,$ (kilovolts), potential "Technique factors" means the electrical system (see "Control panel").

individual who has the knowledge, training and experience to measure radiation protection needs and apply the principles of radiological To meet these criteria, a "Therapeutic radiological physicist Radiological-Physicist" means an ionizing radiation, evaluate safety techniques, advise regarding therapeutic radiological physicist shall: physics to clinical radiation therapy.

the American Board of Radiology, the American Board of Medical Physics or the Canadian College of Medical certified by Physics in:

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Therapeutic radiological physics; or

Roentgen ray and gamma ray physics; or

X-ray and radium physics; or

Radiological physics; or

full-time work experience under the supervision of a therapeutic radiological physicist at a medical institution. To meet this the individual shall have performed the tasks specified in Section Sections 360.120(c), (d) and (e) of this Hold a master's degree or doctorate in physics, biophysics, radiological physics or health physics and have completed l year full-time training in radiological physics and also I year of the supervision of a therapeutic radiological physicist during the year of work experience. under requirement,

of "Tomogram" means the depiction of the x-ray attenuation properties a section through the body. "Tomographic plane" means that geometric plane which is identified as corresponding to the output tomogram.

object whose x-ray "Tomographic section" means the volume of an attenuation properties are imaged in a tomogram.

"Useful beam" (see "Beam").

"X-ray equipment" means an x-ray system, sub-system or component thereof. Types of x-ray equipment are as follows:

permanent base with wheels and/or casters for moving while Mobile x-ray equipment includes x-ray on "Mobile x-ray equipment" means x-ray equipment mounted equipment permanently mounted in vehicles. completely assembled.

"Portable x-ray equipment" means x-ray equipment designed to be hand-carried. "Stationary x-ray equipment" means x-ray equipment which is installed in a fixed location.

intersection of the useful beam and any one of the set of planes parallel to and including the plane of the image receptor. The edge "X-ray field" means, for diagnostic purposes, that area of the of the x-ray field is defined as the locus of points at which the exposure is 25 percent of that at the center of the x-ray field. intersection of the useful beam and any

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system" means an assemblage of components for the controlled production of x-rays. It includes minimally an x-ray high-voltage generator, an x-ray control panel, an x-ray tube housing assembly, a supporting structures. Additional components which function with the system are considered diagnostic integral parts of the system. X-ray systems include systems, therapeutic systems and accelerator systems. beam-limiting devices and the necessary

effective F9 0 4 5 Reg. 111. 22 (Source: Amended at

Section 360.30 General Requirements and Administrative Controls

requirements in this Section apply to all uses of x-rays in veterinary x-rays for both diagnostic and therapeutic purposes. Additional requirements for all diagnostic x-ray systems are in Section 360.40 of this Part and specific equipment application classes are contained in Sections 360.41 through 360.100 of this Part. For therapeutic x-ray systems also see Sections 360.110 medicine and to all uses of x-rays in the healing arts including the use of and 360.120 of this Part.

Registrant. The registrant shall: 1) Direct the operation of the x-ray system(s);

provisions of 32 Ill. Adm. Code 320, all x-ray equipment which is used at the facility and all portable or mobile x-ray equipment used by the Register with the Department, in accordance with the registrant;

Submit an application for inspection of radiation machines to the Department in accordance with 32 Ill. Adm. Code 410 and, if the inspection is performed by a qualified nondepartment qualified inspector, submit a -- copy-of the radiation inspection report to the Department; 3)

401 to apply x-rays for either diagnostic or the Department prior to allowing the individual to apply medical radiation Verify that each individual required to be accredited by 32 Ill. therapeutic purposes is properly accredited with procedures on human beings; Code Adm. 4)

5)4) Permit operation of the x-ray system(s) only by individuals who are licensed in accordance with State law (see Section 360.10(a) of this Part), or who are accredited by the Department pursuant to 32 Ill. Adm. Code 401 or who are exempt from such requirements in accordance with the provisions of 32 Ill. Adm. Code 401.

be provided with such primary compliance with the provisions of 32 Ill. Adm. Code 340.210, 340.270, secondary barriers as are necessary to Each installation shall 340.280 and 340.310. barriers and/or Shielding. (q

An x-ray system which does not meet the provisions of this Part shall not be operated for diagnostic or therapeutic purposes. ô

If an x-ray system is identified as not being in compliance with the q

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provisions of this Part and if that system is accessible for use, it shall be rendered inoperable (i.e. dismantle the x-ray source from the provisions of this Part and if that system is accessible for source support assembly) if so ordered by the Director. Prohibitions

(e

Unauthorized Exposure. Individuals shall not be exposed to the useful beam except for healing arts purposes and only when such exposure has been authorized by a licensed practitioner of the This provision specifically prohibits deliberate exposure for the following purposes:

A) Exposure of individuals for training, demonstration or other non-healing arts purposes.

Exposure of individuals for the purpose of "healing arts screening" (see Section 360.20 of this Part). Fluoroscopy shall not be used as a substitute for radiography or of proper anatomical positioning/centering procedures prior to radiographic studies. in lieu 2)

intensification shall be utilized on all Fluoroscopic equipment using phosphorescent screens shall not fluoroscopic equipment. Image 3)

The use of direct exposure x-ray film (without intensifying screens) for routine diagnostic radiological imaging procedures, other than intraoral dental radiography and therapeutic portal imaging, is prohibited. 4)

AGENCY NOTE: Therapeutic portal imaging is a technique used in radiation therapy to verify correct alignment of therapy beams with the patient's anatomy.

called mass image of The use of photofluorographic systems is prohibited. is frequently miniature radiography. In this technique the NOTE: Photofluorography 2)

Individual Monitoring and Reporting Requirements. All persons who are associated with the operation of an x-ray system are subject to the radiation dose standards, requirements for the determination of the doses, requirements for individual monitoring and requirements for reporting of radiation doses which are contained in 32 Ill. Adm. Code fluorescent screen is recorded on film by means of a camera. £)

The registrant shall comply with the requirements of the Department's rules entitled, Notices, Instructions and Reports Inspections, 32 Ill. Adm. Code 400. 6

storage and disposal of all sources of radiation in accordance with Records and Associated Information. The registrant shall maintain at the facility, for a period of at least one inspection cycle (see 32 Ill. Adm. Code 410.60(d)), records showing the receipt, transfer, the provisions of 32 Ill. Adm. Code 310 and 320. , Ч

Staff Qualifications. The registrant shall maintain at the facility, for review by the Department, current certificates of accreditation (clear, legible copies are acceptable), issued by the Department in accordance with the provisions of 32 Ill. Adm. Code 401, for all j)

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individual who operates x-ray equipment at the facility written restrictions required for the safe operation of each radiation machine These procedures shall include and shall include the topics listed in the radiation safety program of The registrant shall provide to each individuals who are required to be so accredited. subsection (k) of this Section betow. operating and safety procedures. Radiation Safety Procedures. j)

and annual in-service training in radiation safety for individuals (excluding licensed practitioners) that apply ionizing radiation at the facility, to ensure their awareness of the registrant's radiation safety practices and policies. The in-service training shall include Radiation Safety Program. The registrant shall provide for initial the following topics: Š

Operating and emergency procedures for the radiation machine(s);

Use of personnel and patient protective devices;

Procedures to minimize patient and occupational doses, including procedures for selecting personnel to support patients or film, as required by Section 360.40 of this Part;

Use of individual monitoring devices (if such devices are used at 4)

the facility);

Prohibited uses of x-ray machines, as described in subsection (e) Film processing procedures; and of this Section, -above. 2) (9

Individuals who operate radiation machines shall be instructed in and able to demonstrate competence with registrant's operating and safety procedures. Operator Training. 7

effective Reg. 111. 22 MAR 1 3 1998 at (Source: Amended

Diagnostic General Equipment and Operation Requirements for Section 360.40 X-Ray Systems requirements of this Section apply to all diagnostic x-ray systems. are application classes Additional requirements for specific equipment Sections 360.41 through 360.100 of this Part.

of the useful beam for a given x-ray tube potential shall not be less than the values shown in Section 360. The half-value layer Table B of this Part. Half-Value Layer

For capacitor energy storage equipment, compliance with the requirements of this subsection (a) shall be determined with the maximum--quantity-of-charge-per-exposure;---This-will-be-deemed-to have-been-met-if-an-mAs-of-i0-or-greater-has-been-used. system fully charged and a setting of 10 mAs

Beam-On Indicators (q

1) The control panel shall include a device (usually a milliammeter $\$ or labeled indicator lamp) which will give positive indication of 5922

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- exposure switch, the tube or tubes which have been selected shall indication shall be both on the x-ray control panel and at or Where two or more radiographic tubes are controlled by one the production of x-rays whenever the x-ray tube is energized. be clearly indicated prior to initiation of the exposure. near the tube housing assembly which has been selected. 5)
- shall be adjusted such that the tube housing assembly will remain Mechanical Support of Tube Head. The tube housing assembly supports stable during an exposure unless tube housing movement is a designed The tube housing assembly supports unless the manufacturer has specifically designed the system to be operated while hand-held. the x-ray system. be hand-held function of shall not ပ
 - Limits. The leakage exceed 25.8 microC/kg(100mR) in 1 hour when the tube is operated at radiation measured at a distance of 1 meter from the source shall not Diagnostic Source Assembly Leakage Radiation its leakage technique factors. q
- Radiation From Capacitor Energy Storage X-ray Equipment in Standby switch or timer is not activated shall not exceed a rate of 0.516 microC/kg (2mR) per hour at 5 centimeters from any accessible surface of the diagnostic source assembly, with the beam-limiting device fully Radiation emitted from the x-ray tube when the exposure Status. e e
- Technique Indicators f)
- automatic exposure controls are used, the technique factors which are set prior to the exposure shall be indicated at the control 1) The technique factors to be used during an exposure shall indicated at the control panel before the exposure begins. panel.
- The requirement of subsection (f)(1) of this Section above may be met by permanent markings on equipment having fixed technique Indication of technique factors shall be visible from the operator's position except in the case of spot films. factors. 5)
- peak (kVp) shall correspond to the actual exposure factors within indicated technique factors of exposure time and kilovolts ten percent of the indicated measured values. The 3
 - Reproducibility of Exposures g G
- For any specific combination of selected technique factors utilized, the coefficient of variation of radiation exposures shall not exceed 0.05 for any specific combination of selected technique factors. It-will-not--be--necessary--to--calculate--the value--of-the-average-exposure-{Eavg}-is-greater-than-or-equal-to coefficient-of-variation-if-for-four-consecutive-measurements-the ten-times-the-maximum-exposure-(Emax)-minus-the-minum-nexposure (Emin):----This--requirement--is-mathematicaily-represented-by-the

will not be necessary to calculate Eavg > 10(-Emax---Emin)
E: It will not be r AGENCY NOTE:

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coefficient of variation if for the first four measurements the ten times the maximum exposure (Emax) minus the minimum exposure value of the average exposure (Eavg) is greater than or equal (Emin). This requirement is mathematically represented by following:

Eavg > 10 (Emax - Emin)

material shall be placed in the beam to provide exposure times in For systems using automatic exposure control (AEC) (i.e., systems employing photo-multiplier tubes, or ionization chambers to terminate the x-ray exposure), compliance measurements shall be performed with the system operating in the AEC mode. Attenuating the range of those used clinically. 2)

Reproducibility of exposures should be measured at technique factors that are commonly used and are subject to variation. For to require testing of the system in a manner that is clinically relevant. AEC systems, commonly used settings in combination with an appropriate thickness of attenuating material should be used The intent of this subsection (9) is provide exposure times in the clinical range. AGENCY NOTE:

Patient or Film Support h)

When a patient or film must be provided with auxiliary support during a radiation exposure: 7

No person shall be used routinely to hold film or patients;

Unless the procedure precludes their use, mechanical holding B)

devices shall be used to restrain patients. For example, mechanical holding devices could not be used if the devices would preclude clear visualization of the tissue being examined.

When a patient or film must be held by an individual, written safety procedures, as required by Section 360.30(j) of this Part,

2)

shall indicate the criteria for selecting a holder and the procedure the holder shall follow.

AGENCY NOTE: The radiation dose received by radiation workers, patients and the general public can be reduced if mechanical patient and film support devices are used for radiographic and fluoroscopic procedures. In the event that an individual must be used in lieu of mechanical patient or film support devices to This can be accomplished by not assigning to a single individual the task of supporting patients and films during radiographic and fluoroscopic examinations. hold patients or films, every effort should be made to limit be rotated through radiation dose to тау of individuals reducing individual's radiation dose. Rather, a number assignment,

i) Personnel Protection

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- Except for patients who cannot be moved out of the room, only the individuals required for the medical procedure or training shall be in the room during the radiographic/flouroscopic exposure. 1
- the room with the patient being protected by 0.25 positioned at a distance such that the individual does not receive a radiation dose in excess of the limits specified in 32 device or lead equivalent apparel or radiographed or fluoroscoped shall be Individuals who must be in Ill. Adm. Code 340.310. millimeter 5)
- Technique Guides j)
- panel, a technique guide shall be provided which specifies for routine examinations performed with that system, the following radiographic x-ray system's control In the vicinity of each
- A) Patient's anatomical size versus technique factors to be Type of and-stre-of--the--film combination utilized; B)
 - utilized, if more than one to-be-used; and SID to be used. Û
- terminate--the-x-ray-exposure; with selectable exposure detectors and density settings, the technique guide shall also specify the employing--photo-multiplier--tubes--or--ionization--chambers---to automatic exposure control (AEC) systems (i:e:;-=:;--systems appropriate exposure detector(s) and density setting to utilized for each radiographic examination listed. 2)
 - technique guide shall specify the requirements of subsections (i)(1)(A) through (C) of this Section above to be followed if if operated in a non-automatic mode, systems, For AEC 3

AGENCY NOTE: The Department recognizes that alternate means may be the control panel to indicate technique factors for operated-in-a-non-automatic-mode. computerized imaging systems. available at

Patient Dose Criteria. Procedures and auxiliary equipment designed to £

minimize patient and occupational dose commensurate with needed AGENCY NOTE: It is the intent of this subsection (k) to provide for the optimum optical density, resolution and contrast on the film while minimizing patient dose. X-ray films, intensifying screens and other image recording devices should be as sensitive as is consistent with diagnostic information shall be used.

- X-ray Film Processing Systems. The darkroom safe light illumination shall be adequate for the film speed(s) and the darkroom operating procedures used to prevent fogging of unprocessed film. The following additional requirements apply to film processing systems: the requirements of the examination. 1)
- film processing systems shall be monitored by the registrant to assure:
- A) The use of a dedicated darkroom timer with an adjustable The timer shall be used to adjust film preset function.

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- thermometer shall be used to adjust the film processing time processing time according to solution temperature. darkroom according to solution temperature. dedicated The use of a B)
- temperature(s) (as recommended by the film processing contain, at a minimum, information regarding time(s) and chemical manufacturer) used by the registrant of a film processing guide. radiographs. Û
 - The frequency at which film processing chemicals are changed is appropriate for the conditions of use. (Q
- Automated film processing shall be monitored by the registrant to 2)
- The temperature of film processing chemicals and the film transport speed is appropriate for the type of film(s) being utilized processed-at-the-film-transport-speed-selected. A)
- The film processing chemicals used and their replenishing rate (if applicable) are appropriate for the type of film(s) and quantity processed film-transport-speed-selected. B)
- Shielding. Except for cases in which it would interfere with the diagnostic procedure, gonadal shielding of not less than 0.5 millimeter of lead equivalent shall be used for patients (who have not passed the reproductive age) during those radiographic procedures in AGENCY NOTE: Protection of the embryo or fetus from radiation dose childbearing age (potentially pregnant) should be given special treatment of a woman examination or which the gonads are in the useful beam. radiological Ē

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consideration.

Section 360.50 Fluoroscopic Systems

In addition to the provisions of Sections 360.10, 360.30, 360.40 and 360.41 of this Section apply to x-ray equipment and this Part, the requirements of this Section associated facilities used for fluoroscopy.

- be limited by stepless The x-ray field shall In addition: adjustable shutters. a) Beam Limitation.
- greater no þe The minimum field size at the greatest SID shall than 5 centimeters by 5 centimeters.
- activating and positioning the beam-limiting shutters shall function properly. This requirement applies to shutters used in both The mechanism(s) (manual/automatic mode selector(s)).provided for fluoroscopic procedures or spot filming procedures or fluoroscopic and spot filming procedures. 2)
- of the image receptor shall exceed that of the visible area of Neither the length nor the width of the x-ray field in the 3)

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sum of the excess length and the excess width shall be no greater than four percent of the SID. This requirement applies to field sizes for fluoroscopic procedures or spot filming procedures or the image receptor by more than three percent of the SID. both fluoroscopic and spot filming procedures.

limitation, the x-ray field produced shall be limited to the area For fluoroscopic equipment with only a manual mode of beam of the spot film cassette at 40.6 centimeters (16 inches) above the tabletop. Additionally, during fluoroscopy, the operator shall restrict the beam to the area of the input phosphor. 4)

Spot film devices shall meet the following additional requirements: 2)

image receptor to the size which has been selected on the automatically except when the x-ray field size in the plane Means shall be provided between the source and the patient for adjustment of the x-ray field size in the plane of the spot film selector. Such adjustment shall be accomplished of the image receptor is smaller than that selected; A)

The center of the x-ray field in the plane of the image receptor shall be aligned with the center of the selected portion of the film to within two percent of the SID; and B)

beam axis is variable, a device shall be provided to the image receptor and visually indicate when the axis of the x-ray beam is perpendicular to the plane of the image receptor. If the angle between the plane of Û

apply to fluoroscopic systems specifically designed for examination of extremities only and meeting the requirement of beam limitation requirements of this subsection shall not subsection (1) of this Section below. (9

Fluoroscopic Timer. A manual reset, cumulative timing device shall be turn off the system when the total exposure time exceeds a used which will either indicate elapsed on-time by an audible signal predetermined limit not exceeding 5 minutes in one or a series of exposures. p)

Primary Barrier/Interlock. These devices shall be provided and shall function so that: Û

1) The entire cross section of the useful beam is intercepted by the

primary protective barrier of the fluoroscopic image assembly The fluoroscopic tube 5)

is in position to is interlocked to prevent the unit from intercept the useful beam, as specified in subsection (1) of this producing x-rays unless the primary barrier Section above, at all times.

Source-Skin Distance. The SSD shall not be less than: g)

38 centimeters (15 inches) on all stationary fluoroscopes; 20 centimeters (8 inches) on all mobile fluoroscopes; and

9 9.5 centimeters (3.5 4 inches) for fluoroscopes specifically designed for examination of extremities only and meeting the 3)

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requirements of subsection (1) of this Section below.

Indication of Potential and Current. During fluoroscopy and recording of fluoroscopic images, the KVD kV and the mA shall be continuously indicated at the control panel and/or the operator's position. (e

fluoroscopic mode shall be controlled by a device which requires the entire time of any exposure. When recording serial fluoroscopic images, the operator means may be provided to permit completion of any single exposure of shall be able to terminate the x-ray exposure(s) at any time, X-ray production in continuous pressure by the operator for Activation of the Fluoroscopic Tube. the series in process. f)

Entrance Exposure Requirements g

1) Maximum Exposure Rate. Fluoroscopic systems shall not be operable result in an exposure rate in excess of 2.58 mC/kg(10 R) per minute at the point where the center of the useful beam enters at any combination of tube potential and current which will the patient, except:

During recording of fluoroscopic images; or

When an optional high level control is activated (see See A)

which will result in an exposure rate in excess of 5.15 mC/kg(20 R) per minute at the point where the center of the useful beam In addition, the following requirements When a high level control is activated, the equipment shall not be operable at any combination of tube potential and current subsection (g)(2) below). enters the patient. In addiapply to high level controls: 2)

The high level control shall only be operable Separate means of activation of high level controls shall be when continuous manual activation is provided required. operator. A)

A continuous signal audible to the operator shall indicate that the high level control is being employed. B)

Compliance with the requirements of subsections (q)(1) and (2) of this Section above shall be determined using technique factors systems employing automatic exposure rate control, material having an equivalency of at least 3 millimeters of lead shall be placed in the primary the radiation measuring device. The lead or equivalent material shall be positioned to ensure that the entire primary beam is blocked. that produce the maximum exposure rate. For beam between the image receptor and 3)

AGENCY NOTE: Many fluoroscopic systems do not yield their maximum exposure rate at the maximum tube potential or tube mA settings to establish the maximum exposure rate for the current. The exposure rate should be checked at various kVp

ŏ tube potential and current that will result in an exposure rate in excess of 1.29 mC/kg (5 R) per minute at the point where the Fluoroscopic systems shall not be operable at any combination 4)

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center of the useful beam enters the patient, when measured under the following conditions:

Movable grids and compression devices shall be removed from the useful beam during the measurement. A)

For systems without automatic exposure rate control, the be performed using technique factors clinically used for a standard adult patient thickness of 23 measurement shall centimeters. B)

NOTE: An attenuation block or other suitable material should be placed in the beam to protect the imaging system.

For systems with automatic exposure rate control, the measurement shall be performed with an-attenuation-block--or material simulating the standard adult patient thickness of 23 centimeters, in the beam between the radiation measuring device and the image receptor. other Û

images, and the entrance exposure for spot film techniques additional fluoroscopic In either case, measurements should be made under the conditions measurements be made of the entrance exposure rate for specified in subsection (g)(4)(B) of this Section above. for fluoroscopic systems with that modality. recommends systems capable of recording Department NOTE: The fluoroscopic

The requirements of subsection (q)(4) of this Section shall fluoroscopes specifically designed for examination of extremities only and meeting the requirements of subsection (1) of this Section below. to apply not (n

subsections (g)(1) through (4) of this Section above shall meet requirements the to the following additional requirements: Measurements performed pursuant 2)

If the source is below the table, the exposure rate shall be 1 centimeter above the tabletop or cradle, with the input surface of the fluoroscopic imaging assembly positioned 30 centimeters determined for the center of the useful beam inches) above the tabletop. A)

If the source is above the table, the exposure rate shall be determined at 30 centimeters (12 inches) above the tabletop spacer closely as possible to the point Or with the end of the beam-limiting device as measurement. positioned B)

For a fixed SID C-arm type of fluoroscope, the exposure rate shall be determined 30 centimeters (12 inches) from the input surface of the fluoroscopic imaging assembly. 0

For a variable SID C-arm type of fluoroscope, the exposure rate shall be determined 30 centimeters (12 inches) from the input surface of the fluoroscopic imaging assembly with the end of the beam-limiting device or spacer positioned as close as possible to the point of measurement. a

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- determined on the central axis of the primary beam at a point 15 centimeters (6 inches) from the centerline of the x-ray table and in the direction of the x-ray source with the end of the beam-limiting device or spacer positioned as beam-limiting device or spacer no closer than 15 centimeters AGENCY NOTE: A lateral type fluoroscope is a fluoroscope closely as possible to the point of measurement. If the For a lateral type fluoroscope, the exposure rate shall tabletop is movable, it shall be positioned as closely possible to the lateral x-ray source, with the end of to the centerline of the x-ray table. Ξ
- for þe examination of extremities only, the exposure rate shall fluoroscopic system specifically designed determined for the minimum source-skin distance. fluoroscopic table or cradle. F)

fluoroscopic imaging assembly can be positioned below

þe

cannot

that

rotated so that the source or

- measurements required by this subsection (q) above shall be Adm. Code 410 as well as after any maintenance of the system performed when the system is inspected as specified in 32 Ill. which might affect the exposure rate. (9
 - (2) and (4) of this Section above shall be posted or available at The name of the individual performing the measurements and the The results of the measurements required by subsections (q)(1), The measurement results shall be stated in microcoulombs per kilogram (milliroentgens) per second and shall include the technique factors used in determining such results. date the measurements were performed shall be included in the minute per (roentgens) kilogram the control panel. per millicoulombs results. 7)

AGENCY NOTE: The resolution and efficiency of the fluoroscopic whenever deterioration in the imaging system is suspected and when the measured exposure rate exceeds the standards of this Section. periodically, imaging system should be evaluated

- Barrier Transmitted Radiation Rate Limits h)
- hour at 10 centimeters from any accessible surface of the image receptor per 258 microC/kg (1R) per minute of entrance exposure the primary protective barrier shall not exceed 0.516 microC/kg (2mR) per of the The exposure rate due to transmission through fluoroscopic imaging assembly beyond the plane
- Measuring Compliance of Barrier Transmission 2)
- the primary averaged over an area of 100 square centimeters with no measurements A) The exposure rate due to transmission through protective barrier shall be determined by linear dimension greater than 20 centimeters.
 - If the source is below the tabletop, the exposure rate shall be determined with the input surface of the fluoroscopic B)

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positioned 30 centimeters above the assembly tabletop.

- beam-limiting device or spacer as close to the tabletop as can be placed, provided that it shall not be closer than the exposure rate shall be determined with the end of the If the source is above the tabletop and the SID is variable, 30 centimeters. ວ
- Movable grids and compression devices shall be removed from the useful beam during the measurement. â
 - 10 centimeters from the point of measurement of entrance exposure rate and between this point and the input surface An attenuation block shall be positioned in the useful of the fluoroscopic imaging assembly. (i
- does not receive a radiation dose in excess of the limits specified in Staff and Ancillary Personnel Protection. The operator, assistants and observers allowed in the examining room shall be protected from be positioned at a sufficient distance to ensure that the individual scatter radiation by protective aprons of not less than millimeter lead equivalent or whole body protective barriers or 32 Ill. Adm. Code 340.310. <u>.</u>
- Control of Scattered Radiation Ĵ
- For fluoroscopic systems utilizing an x-ray tube that is mounted below the table, the table shall be provided with shielding (bucky slot cover) equivalent to 0.25 millimeter lead equivalent to attenuate scattered radiation emanating from below the table.
 - shielding shall not be a substitute for the wearing of a protective apron (0.25 millimeter lead equivalent) for protection be provided and used to intercept scatter radiation which would A shield of at least 0.25 millimeter lead equivalent, such as otherwise reach the operator and others near the machine. overlapping protective drapes or hinged or sliding panels, against scattered radiation. 5)
- protective barriers or drapes, subsection (1)(2) of this Section of Where sterile fields or special procedures prohibit the above shall not apply. 3)
 - Additional Requirements for Stationary Fluoroscopic Systems Used for Cardiac Catheterization Procedures х Э
- x-ray tube(s). If a protective barrier includes or consists of a viewing panel, the viewing panel shall afford Protective aprons of not less than 0.25 millimeter of lead Protective barriers shall be available for use by individuals whose presence is required in the room during activation of the protection of not less than 0.5 millimeter of lead equivalent. transparent 5)
- AGENCY NOTE: Because modern equipment allows great flexibility in the direction of the beam, individuals in the room should step back from the x-ray system and behind protective barriers during shall be worn in the fluoroscopy room individuals (except the patient).

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activation of the x-ray tube(s).

- Additional Requirements for Fluoroscopic Systems Specifically Designed Section t C pursuant The radiation safety procedures required for Examination of Extremities Only 7
 - A warning concerning the potential for, and the hazards of, with x-ray associated 360.30(j) of this Part shall include the following: increased patient radiation dose
- Procedures for obtaining imaging magnification with minimum patient dose, including imaging systems or screen-film systems employing short source-skin distances; combinations; B)
- Technique factors for specific examinations for which the system is designed; Û
- "For skin entrance exposure x-ray system shall be clearly labeled as follows: for each set of technique factors used. Radiation exposure data, including 2)

(D

- The source-skin distance shall be limited as specified in Examination of Extremities Only." 3)
 - of for examination Fluoroscopic systems specifically designed subsection (d) of this Section above. 4)
- of Radiation therapy simulation examination for only shall be used solely Radiation Therapy Simulation Systems. extremities.

extremities

- systems shall be exempt from the requirements of subsections (a), (b), (c), (g) and (h) of this Section above provided that: Œ
 - Such systems are designed and used in such a manner that no individual other than the patient is in the x-ray room during periods of time when the system is producing x-rays; and
- the Such systems that do not meet the requirements of subsection (b) x-rays. Procedures shall require in such cases that the timer be of this Section above are provided with a means of indicating cumulative time that an individual patient has been exposed reset between examinations. 2)
- a fluoroscopic radiation machine unless such person is licensed to practice a treatment of human Operator Restrictions. No person shall intentionally administer ailments under the Medical Practice Act of 1987, the Illinois Dental Practice Act or the Podiatric Medical Practice Act of 1987, except: radiation to a human being with u)
 - required and only under the direct supervision of a licensed 1) An accredited medical radiographer may operate a fluoroscope functions when interpretation of the results practitioner who is within visual contact; or
- An accredited medical radiographer or radiation therapist may Operate a fluoroscope for radiation therapy simulation procedures under the direct supervision of a licensed practitioner. 5)

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Than Fluoroscopic, Dental, Other Systems Veterinary or Computed Tomography Systems 360.60 Radiographic

this Part, the requirements of this Section apply to x-ray equipment and associated facilities week in the best of the section apply to x-ray equipment and It does not apply to fluoroscopic, dental, veterinary or computed tomography systems.

a) Beam Limitation. The useful beam shall be limited to the area clinical interest.

1) Stationary General Purpose and Mobile/Portable X-Ray Systems

A) Variable X-Ray Field Limitation. An adjustable collimator shall be provided with means for independent stepless adjustment of the size of the x-ray field.

field, shall not exceed two percent of the distance from the Visual Indication of Field Size. Means shall be provided for visually defining the perimeter of the x-ray field. The total misalignment of the edges of the visually defined field, with respect to the edges of the x-ray field, along of the visually defined source to the center of the visually defined field when the surface upon which it appears is perpendicular to the axis either the length or the width of the x-ray beam. B)

AGENCY NOTE: When a light localizer is used to define the x-ray field, it should provide an average illumination of not less than 100 lux (9 footcandles) at 100 centimeters or at the maximum SID, whichever is less. Additional--Requirements--for--Stationary--General--Purpose-X-Ray Systems:--In-addition--to--the--requirements--of--subsection--(1) above----all--stationary--general-purpose-x-ray-systems-shall-meet the-following-requirements: 44

The-beam-limiting--device--shall--numerically--indicate--the x-ray-field-size-in-the-plane-of-the-image-receptor-to-which it-is-adjusted-十八

The-x-ray-field-dimensions-shall-be-specified-in-centimeters and/or--inches--and--shall-be-such-that-aperture-adjustments result-in-x-ray-field-dimensions-in-the-plane-of--the--image receptor--that--do--not--differ-from-the-numerical-indicated dimensions-by-more-than-plus-or-minus-two-percent-of-the-SIB when-the-beam-axis-is-perpendicular--to--the--plane--of--the B

The--beam-limiting--device-shall-be-provided-with-SIB-scales that--reflect--the--actual--SID(s)--used--for---radiographic procedures e÷

SEB-Endication Η

Means-shall-be-provided-to-indicate-the-SIB.

SIBs--shall--be-indicated-in-centimeters-and/or-inches and-the-measured-SIB-shall-correspond-to-the-indicated

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X-Ray--Field/Image--Receptor--Alignment.---Means--shall---be value-to-within-two-percentprovided-to: H

Indicate---when---the--axis--of--the--x-ray--field--is Align-the-center-of-the-x-ray-field--with--respect--to the-center-of-the-image-receptor-to-within-two-percent perpendicular-to-the-plane-of-the-image-receptor;-and

2)37 Special Purpose X-Ray Systems of-the-SIB-

At SEB-Indication

Means-shall-be-provided-to-indicate-the-SIB-

SIBs--shall--be-indicated-in-centimeters-and/or-inches and-the-measured-SIB-shall-correspond-to-the-indicated value-to-within-two-percent:

image receptor so that such field does not exceed each dimension of the image receptor by more than two percent of the SID when the axis of the x-ray beam in A)B+ Means shall be provided to limit the x-ray field perpendicular to the plane of the image receptor. of the

Means--shall--be--provided--to-align-the-center-of-the-x-ray field-with-the-center-of-the-image-receptor--to--within--two percent-of-the-SIB+ e)

The requirements of subsection (a)(2)(A)(B) of this Section above may be met: B) B}

With a system that meets the requirements specified in subsection (a)(1) of this Section (1)-above; or

markings, in centimeters and/or inches, to indicate legible size and SID for which the unit is used, with each the image receptor size and SID for which it is With an assortment of removable, fixed-aperture, requirement for each combination of image receptor to meet clearly beam-limiting devices sufficient having permanent, such device designed; or

combination of image receptor size and SID for which With a beam-limiting device having multiple fixed apertures sufficient to meet the requirement for each clearly legible which each aperture is designed and shall indicate which narkings, in centimeters and/or inches, indicate the image receptor size and SID for Permanent, aperture is in position for use. the unit is used. markings,

C)E+ Exemptions

therapy simulation systems shall be exempt from the beam limitation requirements of subsection Systems. Radiation Therapy Simulation of this Section (B)-above. j.

Mammography Systems. Mammography systems shall be ii)

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subsection (a)(2)(B) exempt from the requirements of of this Section (C)-above.

- the--SIB; -- or shall-be-provided with means-to-both size-and align X-Ray--Systems-Besigned-for-One-Image-Receptor-Size--Radiographic equipment-designed-for-only-one-image-receptor-size--at--a--fixed plane-of-the-image-receptor-to-dimensions-no-greater--than--those of--the-image-receptor-and-to-align-the-center-of-the-x-ray-field the-x-ray-field-such-that-the-x-ray-field-at--the--plane--of--the image--receptor--does--not--extend--beyond--any-edge-of-the-image SIB--shall-be-provided-with-means-to-limit-the-x-ray-field-at-the with-the-center-of-the-image-receptor-to-within--two--percent--of receptora 44
- p)
- radiation exposure to the image not be possible to make an exposure Radiation Exposure Control Devices $\ensuremath{\mathtt{1}}\xspace$) Timers. Means shall be provided to terminate the exposure at a preset time interval, preset product of current and time, preset to a zero or off position if either number of pulses or preset shall when the timer is set position is provided. receptor.
 - X-Ray Control 5)
- system such that an exposure can be terminated by the An x-ray control shall be incorporated into each x-ray operator at any time except for:
 - Exposures of 0.5 second or less; or
- During serial radiography when means shall be provided to permit completion of any single exposure of the series in process.
 - The exposure switch shall be a dead-man switch. 3
- Automatic Exposure Controls (AEC). Systems which are provided with automatic exposure control devices shall incorporate a back-up timer to terminate the radiation exposure in the event of In addition, they shall meet the AEC failure. requirements:
- A) Indication shall be made on the control panel when this mode of operation is selected; and
- A visible signal shall indicate when an exposure has been be required before further automatically timed exposures can terminated by the back-up timer, and manual resetting shall be made. B)
- Source-Skin Distance (SSD). All mobile or portable radiographic systems shall be provided with means to limit the SSD to 30 centimeters or greater. G
- indicated milliampere-seconds (mAs) product obtained at any two tube current or current-time product settings utilized shall not differ by Linearity. For equipment that is operated at more than one x-ray tube more than 0.10 times their sum. This requirement is mathematically ratios of current or current-time product setting, the average ratios exposure (microcoulombs per kilogram or milliroentgens) to q)

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represented by the following:

$|\overline{x}[1]| - \overline{x}[2]| \le [0.10(\overline{x}[1] + \overline{x}[2])|$

obtained at any two tube current or current-time product settings Compliance shall be determined at any fixed x-ray tube potential within the rage of 40 percent to 100 percent of the maximum or mR/mAs where X[1] and X[2] are the average microC/kg/mAs rated tube potential. utilized.

patient for routine medical radiography shall not exceed the entrance exposure limits shown below: (See Section 360.Appendix A of this Part in-air exposure determined for the technique used for the specified average adult for measurement protocol and calculation of exposure The Medical Radiographic Entrance Exposure Limits. entrance).) (e

recinique	Thickness (cm)	Exposure Limit (microC/kg)	(mR)
Chest (PA), Grid	23	6	35
Chest (PA), Non-Grid	23	80	30
Abdomen (KUB)	23	155	009
Lumbo-Sacral Spine (AP)	23	206	800
Cervical Spine (AP)	13	52	200
Skull (lateral)	15	65	250
Foot (D/P)	80	26	100

exposures are maximums. With careful film processing systems, and choice of film and screen-film combinations, patient selection of technique factors, adjustment of exposures can be further reduced. NOTE: These

- Means shall be provided to indicate the SID. SID Indication Ę,
- measured SID shall correspond to the indicated value to within SIDs shall be indicated in centimeters and/or inches and the
- Indicate when the axis of the x-ray field is perpendicular to the X-Ray Field/Image Receptor Alignment. Means shall be provided to: 7 g
- Align the center of the x-ray field with respect to the center of the image receptor to within two percent of the SID. plane of the image receptor; and 2)

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(Source: Amended

Section 360.71 Additional Requirements for Facilities Performing Mammography (860) S 1 2 2 1888

360.60 of this Part and 32 Ill. Adm. Code 400 and 401, the requirements of this In addition to the provisions of Sections 360.10, 360.30, 360.40, 360.41, Section apply to mammography systems and associated facilities used for mammography.

a) Physician Supervision.Mammography operations and procedures shall be Practice Act of 1987 (#11:-Rev:-Stat:-1991;-ch:-111:-par:--4400) [225 under the supervision of a physician licensed under the Medical ILCS 60] to practice medicine in all of its branches.

breast should be a licensed practitioner of the healing arts trained AGENCY NOTE: The individual interpreting clinical images of the In the imaging modality being used and should be certified in American Board of Radiology, in-diagnostic--radiology--or-general radiology-or the American Osteopathic Board of Radiology, or Royal College of Physicians and Surgeons of Canada. Facilities-performing mammography-are-encouraged--to--seek--accreditation--by--the--American diagnostic radiology or--eligible--for--certification College-of-Radiology:

assure that medical radiographers who perform mammography procedures have met the requirements for initial training and continuing Medical Radiographers Who Perform Mammography. Registrants shall education in mammography, as set forth in 32 Ill. Adm. Code 401.160 and 401.Appendix C. (q

Mammography shall only be performed with a special purpose radiation machine specifically designed for and used solely for mammography systems shall be provided with compression devices ΰ

parallel to the imaging plane to immobilize and compress the Compression devices shall: q)

1) Be capable of maintaining a compression force of at least 11.3 kilograms (25 pounds) for at least 15 seconds; and

kilograms (40 pounds) when used in an automatic or power drive Not be capable of exceeding a compression force of more than 18.1 AGENCY NOTE: Mammography compression devices should be tested at regular intervals to ensure the compression force is adequate but not excessive and that the devices release properly according to Half-Value Layer. Notwithstanding the requirements of Section of this Part, the following requirements apply mammography systems: 360.40(a) (e

the manufacturer's specifications.

aluminum of the useful beam shall be equal to or greater than the less than 35 kVp, the half-value layer (HVL) in millimeters of 1) For mammography systems operating at x-ray tube potentials

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product of the tube potential in kilovolts multiplied

Example: If the HVL is measured with the compression paddle in the beam, at a tube potential of 27 kVp, the minimum acceptable HVL is $0.30~\theta$ -27 millimeter of aluminum. plus 0.03 when measured with the compression paddle in the beam.

indicated kVp values. If a discrepancy exists between measured and indicated values, the measured value should be used for the AGENCY NOTE: Prior to making HVL determinations, the kVp of the calculation of minimum HVL (see also Section 360.40(f)(3) of this useful beam should be measured to verify the accuracy of

For non-screen-film applications, the half-value layer shall not be less than 1.0 millimeter of aluminum equivalent. 2)

Mammography Dose Measurement Protocol and Section 360.Appendix C be measured with the compression device in the beam and shall be measured at the same tube potential used in Section $360.\mathrm{Appendix}$ B of this Part, of this Part, Mammography Phantom Image Evaluation. The half-value layer shall 3)

not exceed the minimum acceptable HVL by more than 0.1 millimeter If the measured half-value layer is significantly greater than the specified minimum, image contrast will be screen-film mammography systems, it is recommended that the HVL Mammography Quality Control for Medical Physicists, Revised reduced and overall image quality will be degraded. of aluminum, as specified in the American College AGENCY NOTE:

AGENCY NOTE: A copy of this report is available for public inspection at the Department of Nuclear Safety, 1035 Outer Park Drive, Springfield, Illinois 62704. Copies of this report may also be obtained from the American College of Radiology, Edition, 1994.

Source-Image Receptor Distance. Mammography equipment shall not be operated at any source-image receptor distance less than Preston White Drive, Reston, VA 22091. centimeters. f)

Focal Spot Size. The nominal focal spot size, as specified by the x-ray tube manufacturer, shall not exceed 0.6 millimeter. g)

craniocaudal view of a 4.24.5-- centimeter compressed breast (50 Mammography Exam Dose Limits. (See Section 360.Appendix B of this Part for the required measurement protocol.) The mean glandular percent adipose and 50 percent glandular) shall not exceed: h)

1) lmGy(100 mrad) forscreen-film radiographs not employing the use of grids,

3mGy(300 mrad) forscreen-film radiographs employing the use of grids, or

3) 4mGy(400 mrad) for xerography.

Mammography Exposure Rate. Mammography systems shall have sufficient the dose measurement of subsection (h) of this Section above within a time of to complete the exposure required for i)

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2.5 seconds or less.

AGENCY NOTE: Mammographic x-ray systems should have means to indicate the milliampere-seconds (mAs) resulting from each exposure made with

Mammography Phantom Image Evaluation. Mammography equipment shall be subjected to a phantom image evaluation using the mammography phantom specified in subsection (j)(2) of this Section below. automatic exposure control. Ĵ

 A phantom image evaluation shall be performed annually as part of the inspection procedure required in 32 Ill. Adm. Code 410.50, using the mammography phantom image evaluation protocol found in Section 360.Appendix C of this Part.

Departmental inspector shall be retained by the Department. A) Phantom images produced during an inspection by

Phantom images produced during an inspection by a qualified nondepartment qualified inspector shall be submitted to the Department at the time of submission of inspection reports.

mammography phantom used for phantom image evaluation shall centimeter compressed breast of average density (i.e., 50 percent adipose and 50 percent glandular tissue) and shall contain the be composed of material that is equivalent to a nominal following objects: 5

Spherical masses, composed of phenolic plastic, with thicknesses of: 2.00, 1.00, 0.75, 0.50 and 0.25 millimeter; A) Spherical masses,

of aluminum oxide, with diameters of: 0.54, 0.40, 0.32, 0.24 and 0.16 millimeter; composed m m

Fibers, composed of nylon, with thicknesses of: 1.56, 1.12, 0.89, 0.75, 0.54 and 0.40 millimeter. ပ

AGENCY NOTE: The Mammographic Accreditation Phantom Model 156, manufactured by Radiation Measurements, Inc., meets the above criteria and was chosen for use by the American College of Radiology's Mammography Accreditation Program.

Phantom images submitted to the Department shall be labeled with or include as an attachment the following information: 3)

Name of the facility and machine reference number;

Identification of the film processing equipment; Technique factors used to produce the image; В)

Date the image was produced; and 00

inspector identification number of the individual performing the test. E

the mammography phantom in which the following objects are imaqes producing The mammography system shall be capable of visualized: 4)

The three largest speck groups with diameters of 0.54, 0.40 The three largest masses with thicknesses of 2.0, 1.0 0.75 millimeter. A) В)

The four largest fibers with thicknesses of 1.56, 1.12, 0.89 and 0.32 millimeter. and 0.75 millimeter. ပ

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during mammography phantom image evaluation and shall report the results The Department will evaluate mammography phantom produced images Department shall evaluate the of the evaluation to the facility. 2)

AGENCY--NOTE:--A--copy--of--this--report--is-available-for-public Radiology in: American College of Radiology; Mammography Quality images using procedures recommended by the American College of Control for Medical Physicists, Revised Edition, 1994 Apr±1-1992. inspection-at-the-Department-of-Nuclear-Safety,-1935--Outer--Park Drive, -- Springfield, -- Fllinois -- 62704 -- Copies - of -this - report - may also-be-obtained-from-the-American--College--of--Radiology;--1891 Preston-White-Brive,-Reston,-VA-22891-

the mammographic x-ray machine and the film processor. Each facility þe procedures. The QA program shall include a performance evaluation of shall have available for daily use the mammography phantom specified established and maintained at each facility performing mammography in subsection (j)(2) of this Section above, a densitometer and A quality assurance (QA) program shall Assurance. sensitometer. ×

A diagnostic imaging specialist shall establish and provide administrative oversight over the quality assurance program.

The quality assurance program shall include but not be limited to the following:

individuals of qualifications A list of names and responsible for:

Administration of the QA program;

Performance of QA tests; and

iii) Repairing or servicing the x-ray equipment.

A QA protocol which includes the following: B)

A description of the QA tests to be performed;

The frequency of each QA test;

iii) Criteria of acceptability for each QA test; and

A description of actions to be taken if established criteria are not met. iv)

the following tests, which shall be performed at the prescribed Quality assurance testing shall include, but not be limited frequency. 3)

performance of evaluation each day before the processing of clinical or sensitometer-exposed film which has been processed in the phantom images. Evaluation shall include measurement The film processor shall be subjected to a densitometer and film processor. temperature A)

Mammography systems shall be tested for image quality each Image quality testing shall be performed using the mammography phantom specified in subsection (j)(2) of this Section above and the mammography phantom image evaluation protocol found in Section 360.Appendix C of this calendar month. B)

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In addition, the following requirements apply to quality testing: Part. image

- Section above shall provide such training as is to the individual assigned to perform The individual identified in subsection (k)(1) of this phantom image quality evaluation. necessary i)
 - machine or film processor which may affect the image quality, as determined by the individual identified in be repeated after any change in or replacement of components of the x-ray subsection (k)(1) of this Section above. Image quality testing shall 11)
 - Each phantom image produced shall be labeled with the date, technique factors and equipment information if facility contains more than one mammography machine. the iii)
- The registrant shall assure that the phantom image produced pursuant to this subsection meets the criteria of subsection (j)(4) of this Section above. iv)
- this Section above shall not be used to image human been produced Mammography systems not capable of producing a phantom image meeting the criteria of subsection (j)(4) of the criteria of subsection (j)(4) of this patients until a phantom image has Section above. meeting 6
 - Mobile mammography systems shall be tested using the mammography phantom image evaluation after each relocation and prior to use on patients or shall meet the following requirements: 4)
 - of the radiation output of the mammography system, including the radiation measuring device to be used, A diagnostic imaging specialist shall establish a protocol performing the measurement anticipated result of the measurement. for measurement procedures for
- that were used for the most recent phantom image evaluation (see subsection (k)(3)(B) of this Section above). If a change is made in the technique factors used for the measurements required in this subsection, the image quality Measurements shall be performed using the technique factors evaluation protocol found in Section 360. Appendix C of this shall be tested using the mammography Part. B)

AGENCY NOTE: If the phantom image evaluation is performed using a phototimer, the diagnostic imaging specialist may specify appropriate technique factors that approximate those used by the phototimer for the measurements required in this Section.

measurements of the radiation output of the machine shall be relocation of a mobile mammography system, established performed according to the protocol After each Û

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subsection (k)(4)(A) of this Section above.

- the value established by the diagnostic imaging specialist in subsection $\{k\}(4)(A)$ of this Section above, the system not be used to image human patients until the cause If the radiation output measurement of subsection (k)(4)(C) of this Section above exceeds plus or minus 15 percent of for the variation has been investigated and corrected. (a
- mobile mammography systems be tested for image quality after each mammography phantom image evaluation protocol in Section mammography systems shall be maintained at the location of the mammography system for a period of not less than one recommends that mobile to use on patients, with the for inspection cycle (see 32 Ill. Adm. Code 410.60(d)). Records of radiation output measurements Department 360.Appendix C of this Part. and prior AGENCY NOTE: The relocation <u>ы</u>
- should establish a quality assurance program that provides for analysis of repeated mammography exams, testing of screen-film testing of film fogging in the darkroom and measurement of the A diagnostic imaging specialist shall conduct a review of the quality assurance program each year. Such review shall include testing required in this Section, facilities performing mammography contact for all cassettes used to produce clinical images, force applied by the compression device in both manual and power AGENCY NOTE: In addition to the quality assurance evaluation of the results of quality assurance testing. modes (if applicable). 2)

Records 1)

- at facility, records of quality assurance testing performed as 1) The registrant shall maintain and have available for review required in subsection (k) of this Section above. the
 - Records of film processor performance evaluation shall contain the date the test was performed, identification of the person performing the test and the results of the test including densitometry measurements. A)
- required in subsection (k)(3) of this Section above and the including the number, type and size of phantom objects mammography phantom image, labeled with the information the mammography phantom image evaluation shall include Records of image quality testing oĘ visualized. results B)
- The registrant shall maintain at the facility, for a period of at least one inspection cycle (see 32 Ill. Adm. Code 410.60(d)), the records specified in subsections (1)(1)(A)and (B) of this Section above. ô
 - films shall be retained by the provider of the mammography service for a minimum patient or Unless they are transferred directly to the physician, mammography images or patient's 2)

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patient's physician shall be retained by the physician for a minimum of 60 months. These retention periods are a minimum and of 60 months. Mammography images or films transferred to a shall not reduce any other medical record retention requirements established by statute or regulation.

the mammography service transfers mammography films or images to a patient's physician, the physician should be notified of the AGENCY NOTE: The Department recommends that when a provider of requirement to retain mammography images for 60 months.

- installation at which mammography services are provided shall ensure <u>and have confirmed by each mammography patient that the patient is </u> provided with a pamphlet which is orally reviewed with the patient and Additional Operator Requirements. Every operator which contains the following:
 - how to perform breast self-examination;
- that early detection of breast cancer is maximized through a thorough physical examination by a physician and mammography combined approach, using monthly breast self-examination, performed at recommended intervals; 72
 - that mammography is the most accurate method for making an early detection of breast cancer, however, no diagnostic tool effective; 3
 - that if the patient is self-referred and does not have a primary care physician, or if the patient is unfamiliar with the breast examination procedures, that the patient has received information regarding public health services where she can obtain a breast examination and instructions. [420 ILCS 40/5(c)] 4)

Reg. 111. (Source: Amended at

effective 5904

> Computed Tomography (CT) Systems Section 360.75

Requirements for Equipment a)

- Termination of Exposure
- by shuttering the x-ray beam, through the use of either a means shall be provided to terminate the x-ray exposure automatically, either by de-energizing the x-ray source or In the event of equipment failure affecting data collection, back-up timer or devices which monitor equipment function.
 - (a)(1)(A) of this Section above. The operator shall be able to terminate the x-ray exposure A visible signal shall indicate when the x-ray exposure has been terminated through the means required by subsection В)
- at any time during a scan, or series of scans, of greater than 0.5 second duration.

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A) Means shall be provided to permit visual determination of Tomographic Plane Indication and Alignment 5

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This reference plane can be offset from the location of the tomographic planes. the location of a reference plane.

- If a device using a light source is used to satisfy subsection (a)(2)(A) of this Section above, the light source visual determination of the location of the tomographic or reference plane under ambient light conditions of shall provide illumination levels sufficient to permit up to 500 lux (45 footcandles). B)
 - The total error in the indicated location of the tomographic plane or reference plane shall not exceed 5 millimeters. Û
 - The deviation of indicated scan increment versus actual increment shall not exceed plus or minus 1 millimeter with a a typical starting position to the maximum incremental distance or 30 centimeters, whichever is less, and then typical patient mass resting on the patient support device. The patient support device shall be moved incrementally from returned to the starting position. If the CT system has the compliance performed with the the capability of variable gantry angles, positioned at zero degrees. shall be measurements (Q
 - x-ray control panel and gantry shall provide visual indication whenever x-rays are produced and, if applicable, whether the shutter is open The CT Beam-On and Shutter Status Indicators. 3)
- The CT x-ray control panel shall provide thickness and scan increment prior to the initiation of a scan or visual indication of the technique factors, tomographic Technique Indicators. a series of scans. 4)
- Q
- Facility Design Requirements
- Provision shall be made for two-way aural communication between the patient and the operator at the control The control panel shall be located behind a protective barrier. Communication. panel. 2)
- an equivalent system shall be provided to permit continuous observation of the patient during irradiation and shall be located so that the operator can observe the patient from the Viewing Systems. Windows, mirrors, closed-circuit television or control panel. 3
- specified in terms of the multiple scan average dose (MSAD), using a head phantom and the facility's technique factors most frequently used Radiation dose measurements shall be performed by a diagnostic imaging Such measurements shall for a CT examination of the head and shall be performed: specialist on each CT x-ray system. ο̈
 - which, in the opinion of the diagnostic imaging specialist, could Code 410 and at intervals specified by a diagnostic imaging specialist and after any change or replacement of components At the time of the inspection required pursuant to 32 Ill. Adm. cause a change in the radiation output;

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- 2) With a dosimetry system that has been calibrated within the preceding 12 months. The calibration of such system shall have no more than a three-step (tertiary) calibration, traceable to the National Institute of Standards and Technology; and
- 3) Using the computed tomography dose measurement protocol found in Section 360.Appendix D of this Part.

 AGENCY NOTE: The Department recognizes that other phantoms and protocols are available to provide accurate dose measurements as specified in this Section. The Department will consider use of such phantoms and protocols as satisfying this Section if the intent of the regulation is met.
 - d) Quality assurance procedures shall be conducted on each CT system and shall meet the following requirements:
- 1) The quality assurance procedures shall be in writing and shall have been developed by a diagnostic imaging specialist. Such procedures shall include, but need not be limited to, the following:
- A) Specifications of the tests that are to be performed, including instructions to be employed in the performance of those tests; and
- B) Specifications of the frequency at which tests are to be performed, the acceptable tolerance for each parameter measured and actions to be taken if tolerances are exceeded.
 - 2) Quality assurance procedures shall include acquisition of images using a CT phantom which has the capability of providing an indication of the resolution capability of the system.

 AGENCY NOTE: The CT phantom used for quality assurance procedures should have the capability of providing an indication of contrast scale, noise, nominal tomographic section thickness, resolution capability of the system for low and high contrast objects and relative densities (CT numbers) for water or other reference material.
- e) The registrant shall maintain at the facility written records of the radiation dose measurements and quality assurance testing performed, as required in subsections (c) and (d) of this Section above, for inspection by the Department for a period of at least one inspection cycle (see 32 III. Adm. Code 410.60(d)). Such records shall include, but need not be limited to, the following:
 - 1) The date of the test and identification of the person performing the test;
- 2) Identification of the type of testing that was performed; and 3) Notation of whether the results of the testing were within the
- 3) Notation of whether the results of the testing were within the parameters established by the diagnostic imaging specialist.

 AGENCY NOTE: The Department recommends that the registrant retain the results of quality assurance testing in the form of photographic copies of the images obtained from the image display device or images stored in digital form on a storage medium compatible with the CT x-ray system. Images retained to fulfill

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the requirements of this subsection should be labeled with the information required in subsections (e)(1) through (3) of this Section above.

f) Operating Procedures. Information shall be available at the control panel regarding the operation of the system. Such information shall include written quality assurance procedures, as required in subsection (d)(1) of this Section above.

(Source: Amended at 22 Ill. Reg. 高度的基本,effective

Section 360.90 Dental Radiographic Systems

In addition to the provisions of Sections 360.10, 360.30 and 360.40 of this Part, the requirements of this Section apply to x-ray equipment and associated facilities used for dental radiography. Refer to Section 360.50 of this Part for requirements for dental fluoroscopic systems.

- a) General Requirements
- 1) Timers. Means shall be provided to terminate the exposure at a preset time interval, preset product of current and time, preset number of pulses or preset radiation exposure to the image receptor. Also, it shall not be possible to make an exposure when the timer is set to a zero or off position if either position is provided.
 - 2) X-Ray Control. An x-ray control shall be incorporated into each x-ray system such that an exposure can be terminated by the operator at any time except for exposures of 0.5 second or less.
- 3) Exposure Switch Arrangement. The exposure switch shall be a dead-man switch and shall be arranged so that the operator can be behind a protective barrier or at least 1.83 meters (6 feet) from the patient and the tube housing during an exposure.
 - b) Additional Requirements for Dental Intraoral Systems
- 1) Source-Skin Distance (SSD). X-ray systems designed for use with an intraoral image receptor shall be provided with means to limit the SSD to not less than:
 - A) 18 centimeters if operable above 50 kVp; or B) 10 centimeters if operable at 50 kVp and below.
- 2) Beam Limitation. Radiographic systems designed for use with an intraoral image receptor shall be provided with means to limit the x-ray beam such that the x-ray field, at the minimum SSD, shall be containable in a circle having a diameter of no more
- 3) Dental Radiographic Exposure Limits (Single Film). The entrance exposure to an adult patient for a routine intraoral bitewing exam shall not exceed the limit specified for the kVp used in the table below. Exposures are specified as free-in-air exposures without backscatter.

Tube Potential	"D" Speed Film	Film	"E" Speed Film	ilm
	(microC/kg) (mR)) (mR)	(microC/kg) (mR)	(mR)
	142	550	72	280
	134	520	65	250
	121	470	57	220
	107	415	49	190
	93	360	43	165
	80	310	36	140
	29	260	30	115
	61	235	2.7	105
	54	210	25	95
	20	195	22	85
	46	180	18	70

Linear extrapolation or interpolation shall be used for an x-ray tube potential (kVp) not listed in the table.

AGENCY NOTE: The exposures specified in the above table were u.s. empirically determined by a panel of dentists in a shall be measured at the time the entrance exposure is determined pursuant to subsection (b)(3) of this Section above to 4)

Dental rotational panoramic systems shall be provided with means Beam Limitation Requirements for Dental Extraoral Systems determine the correct exposure limit to be applied. 7 ô

to limit the x-ray beam to the imaging slit in the transverse axis and shall not exceed a total of 13 millimeters (0.5 inch) larger than the imaging slit in the vertical axis. 5)

All other dental extraoral radiographic systems (e.g., cephalometric) shall be provided with means to both size and of the image receptor by more than two percent of the SID when align the x-ray field so that it does not exceed each dimension the axis of the x-ray beam is perpendicular to the plane of the image receptor extend-beyond-any-edge-of-the--image--receptor--by more-than-two-percent-of-the-SED.

Additional Requirements for Dental Radiography d)

- Patient and film holding devices shall be used when the techniques permit; 1)
 - The tube housing and the position indicating device shall not be hand-held during an exposure; 5)
 - useful beam at the patient's skin does not exceed the criteria The x-ray system shall be operated in such a manner that the 3)
- barrier or be provided with a protective apron of not less than Personnel Protection. The operator shall be behind a protective 0.25 millimeter lead equivalent, or at least 1.83 meters (6 feet) from the patient and the tube housing during an exposure. Individuals whose presence is required in the room during an specified in subsection (b)(2) of this Section above; 4)

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radiation by protective aprons of not less than 0.25 millimeter lead equivalent or a protective barrier or shall be positioned at receive a radiation dose in excess of the limits specified in 32 x-ray examination shall be protected from leakage and scatter a sufficient distance to ensure that the individual does not Ill. Adm. Code 340.310.

AGENCY NOTE: Strict adherence to radiation protection practices should minimize occupational dose and may eliminate the need for individual monitoring are specified in 32 Ill. Adm. Code 340.520. requirements The individual monitoring.

Reg. 111. (Source: Amended 3 1998

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effective

Section 360.100 Veterinary Radiographic Systems

Section 360.40(a)) of this Part, the requirements of this Section apply to x-ray equipment and associated facilities used for radiography with veterinary In addition to the provisions of Sections 360.10, 360.30 and 360.40 (except systems.

Beam Limitation. The useful beam shall be limited to the area of clinical interest. The size of the image receptor used for each radiographic projection shall be consistent with the objectives of the

field in the plane of the image receptor so that the field does not exceed each dimension of the image receptor by more than two Limitation Criteria. Means shall be provided to limit the x-ray percent of the SID when the axis of the x-ray beam perpendicular to the plane of the image receptor.

Means shall be provided to align the center of the x-ray field with the center of the image receptor to within two percent the SID. 5)

The requirements of subsection (a)(1) of this Section above may be met with: 3)

An adjustable collimator with a field defining light, meeting-the-requirements-specified-in-Section--360:60(a)(1);

An assortment of removable, fixed-aperture, beam-limiting combination of image receptor size and SID for which the in centimeters and/or inches, to unit is used, with each such device having permanent, indicate the image receptor size and SID for which it to meet the requirement clearly legible markings devices sufficient designed; or B)

A beam-limiting device having multiple fixed apertures sufficient to meet the requirement for each combination of image receptor size and SID for which the unit is used. Permanent, clearly legible markings, in centimeters and/or ົວ

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which each aperture is designed and shall indicate which inches, shall indicate the image receptor size and SID for aperture is in position for use.

- SID Indication 4)
- SIDs shall be indicated in centimeters and/or inches and the Means shall be provided to indicate the SID.
- measured SID shall correspond to the indicated value to within two percent.
- Exposure Switch Arrangement. The exposure control switch shall be arranged so the operator can be at least 1.83 meters (6 feet) from the animal, the x-ray tube and the useful beam. (q
 - Radiation Exposure Control Devices ς O
- of pulses or preset radiation exposure to the image receptor. Also, it shall not be possible to make an exposure when the timer 1) Means shall be provided to terminate the exposure at a preset is set to a zero or off position if either position is provided. time interval, preset product of current and time, preset
 - The exposure switch shall be a dead-man switch.
- Veterinary fluoroscopic, computed tomography and therapy systems shall 360.120 of this Part, except that the requirements pertaining to aural communication specified in Sections 360.75(b)(2), 360.110(a)(8) and (e)(5) and 360.120(a)(6) and (g)(1)(H) of this Part, need not be meet the requirements specified in Sections 360.50, 360.75, satisfied unless a human is used to hold the animal. q)
 - Additional Requirements for Veterinary X-Ray Systems (e
- protective aprons or gowns of not less than 0.25 millimeter lead 1) All individuals whose presence is required during an x-ray be protected from scatter radiation by equivalent or whole body protective barriers. examination shall
 - All exams and retakes shall be ordered by the veterinarian. 3)
- at least 1.83 meters (6 feet) away from the useful beam and the Unless required to restrain an animal, the operator shall stand animal during radiographic exposures.
- No individual, other than the operator, shall be in the x-ray or area while exposures are being made unless individual's assistance is required. 4)
- When an animal must be held in position during radiography, mechanical supporting or restraining devices shall be used when technique permits. 2)
 - When a person is required to hold an animal during a radiographic procedure, the individual shall be protected with appropriate person shall be so positioned that no part of his/her body except AGENCY NOTE: Veterinarians should review 32 Ill. Adm. Code 340.520 to determine if individuals who hold animals will need to shielding devices, such as protective gloves and apron, hands and arms will be struck by the useful beam. use individual monitoring devices. (9

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effective 59 0 V = C Reg. 111. 1998 8 1 RES 22 (Source: Amended at

the requirements of this Section apply to x-ray therapy systems and associated In addition to the provisions of Sections 360.10 through 360.30 of this Part, Section 360.110 Therapy Systems Operating Below 1 MeV facilities operating at energies less than 1 MeV.

- a) Facility Design
- 1) A therapeutic radiological physicist shall be consulted in the design of an x-ray therapy installation.
 - Shielding requirements 2)
- A) Each x-ray therapy installation shall be provided with such primary and secondary barriers as are necessary to assure compliance with 32 Ill. Adm. Code 340.
- For all x-ray therapy systems capable of operating above 150 kVp installed after October 15, 1993, facility design information shall be submitted to the Department for review Information submitted to the Department shall include, but of the x-ray therapy need not be limited to, the following: installation to B)
 - Name and address of the planned installation.
- radiological physicist who was consulted in the design Name, address and telephone number of the therapeutic of the installation.
 - therapy system, control panel and doors to the room. includes the location iii) A scale drawing that
- The structural composition and thickness of all walls, and ceiling partitions, floor installation. doors, iv)
 - The occupancy of areas adjacent to the installation.
- Calculations that demonstrate the adequacy of the amount of shielding specified for each primary and secondary protective barrier.
 - to the vii) Projected weekly dose rates in areas adjacent installation.
- Interlock. X-ray therapy systems operating at greater than 150 kVp shall have an interlock installed on each door of the therapy room. The interlock shall be wired into the electrical circuit automatically be terminated and in such a manner that when the door is opened, for any reason, only by manually resetting the controls on the control panel after the door is closed. irradiation can be resumed generation of x-rays will the 3)
 - Doors. The doors to the therapy room shall be designed and installed to allow opening from the inside at all times and shall be capable of being opened manually. 4)
 - and all therapy rooms to which access is possible through more Warning Lights. X-ray therapy systems operating above 150 kVp, 2)

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han one entrance shall be provided with warning lights in a readily observable position near the outside of all access doors. The warning lights shall indicate when the useful beam is on.

Operator and control position (9

control panel and operator shall be located either outside the therapy room or behind a protective barrier within the Systems Operating at 150 kVp and Below. X-ray Therapy A)

control panel and operator shall be located outside the therapy The X-ray Therapy Systems Operating Above 150 kVp. В)

provided to permit continuous visual observation of the patient during irradiation and shall be Located so that the operator can observe the patient from the Windows, mirrors, closed-circuit television an equivalent system shall be Viewing System. control panel. room. 2

AGENCY NOTE: When the primary viewing system is electronic, a back-up system should be available for use in the event of failure of the primary system in order to ensure compliance with

The facility design shall permit two-way aural between the patient and the operator at the the requirements of subsection (e)(5) of this Section below. Communication. communications 8

Signs required by 32 Ill. Adm. Code 340.920 shall be posted control panel. the facility. 6

(q

classification of that x-ray system. Radiation measurements When the tube is operated at its maximum the leakage radiation shall not exceed the value specified in the table below at the distance specified in the table for the shall be averaged over an area up to, but not exceeding, 100 rated continuous current for the maximum rated tube potential, Leakage Radiation. square centimeters. Equipment Requirements 1)

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whichever is greater (1 R) per hour,

Beam-Limiting Devices 2)

beam shall provide the same or a higher degree of limiting protection as required for the tube housing assembly. for A) Permanent fixed diaphragms or cones used

οĘ the useful beam to be blocked by these devices, transmit not more than one percent of the useful beam at the maximum kilovoltage and maximum treatment filter. This requirement does not apply to auxillary blocks or materials placed in the useful beam to shape the useful beam to the individual Removable beam-limiting devices shall, for the portion patient. B)

Adjustable beam-limiting devices installed after October 15, 1993 shall meet the requirements of subsection (b)(2)(B) of this Section above. Û

Adjustable beam-limiting devices installed on or before October 15, 1993 shall, for the portion of the x-ray beam to by these devices, transmit not more than five percent of the useful beam at the maximum kilovoltage and maximum treatment filter. be blocked (D

Filter System. The filter system shall be designed so that: 3)

The filters are securely positioned and will not become dislodged when the machine is positioned at any possible orientation; A)

The radiation dose at one meter from the filter insertion slot opening does not exceed 258 mC/kg (1 R) per hour when machine is operated at its maximum current and maximum tube potential; the B)

Each filter is labeled with its composition and thickness (for wedge filters, the wedge angle and maximum design field size shall appear on the wedge or wedge tray); G

If the x-ray therapy system uses changeable filters, there is a filter indication system which permits recognition of in place and indicates from the control panel the presence of a particular filter or absence of any added filter filter: and any (a

an interlock prevents irradiation if the selected filter is For x-ray therapy systems installed after Octoberl5, 1993, <u>ы</u>

Tube/Aperture Alignment. The x-ray tube shall be mounted so that not installed. 4)

it cannot turn or slide with respect to the housing aperture. Tube Housing Stability. The tube housing shall remain stable during treatment unless tube housing movement is a designed Tube Housing Stability. function of the system. 2)

Source-Skin Distance (SSD) Indication (9

A) Means shall be provided to indicate the SSD.

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- SSD shall be indicated in centimeters and/or inches and the measured SSD shall correspond to the indicated value to within 0.5 percent. B)
- Timer. A timer, which has a display at the control panel, shall The timer shall be activated with the production be provided and shall meet the following requirements: radiation; A) 7
- irradiation, the timer shall be activated when the shutter For systems equipped with a shutter mechanism to control is opened; B)
 - The timer shall terminate irradiation when a preselected time has elapsed; Û
- The timer shall permit presetting and determination of exposure times at least as short as 1 second; and á
- The timer shall not permit an exposure if the operator has AGENCY NOTE: The control panel should be equipped with a count-up timer to serve as a back-up to the control timer. not selected a time for the exposure. (E
 - Control Panel Functions. The control panel, in addition to the displays required in other provisions of this Section, shall have: 8
- An indication of whether x-rays are being produced;

A)

- A means for indicating x-ray tube potential and current; and A means for terminating an exposure at any time. 0 B)
 - Shutters. Equipment that is provided with shutters shall meet the following requirements: 6
- The shutters shall have a lead equivalency not less than that of the tube housing assembly; A)
 - The shutter shall be controlled electrically by the operator An indication of shutter position shall appear at the at the control panel; and 0 B)
 - It shall be possible to energize only one x-ray tube at any 10) Multiple Tubes. Control panels capable of energizing more than one x-ray tube shall meet the following requirements: control panel.
- panel control the There shall be an indication at time; B)

A)

- There shall be an indication at the tube housing assembly identifying which x-ray tube is energized; and when that tube is energized. 0
- 11) Low-Filtration X-Ray Tubes. Each x-ray therapy system equipped with a beryllium window shall be clearly labeled as such upon the tube housing assembly and at the control panel.
 - Radiation Protection Survey. A radiation protection survey shall be on each x-ray of the most recent radiation protection survey report for review by the Department. Radiation protection surveys shall meet the following The registrant shall maintain at the facility a copy performed by a therapeutic radiological physicist therapy system. c)

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additional requirements:

- a radiation protection survey performed by a physicist before the 1) X-ray therapy systems installed after October 15, 1993 shall have therapy system is first used for irradiation of a patient.
 - For all x-ray therapy systems, a radiation protection survey shall be performed by a physicist after any change in the x-ray Such survey shall be performed before the therapy system is used therapy system or facility that might produce a radiation hazard. to treat patients. 2)
 - A) A diagram of the facility which details building structures the Survey reports shall include, but need not be limited to, following: 3)
- and the position of the control panel, x-ray therapy system and associated equipment;
 - A description of the x-ray therapy system including the manufacturer, model number and range of kilovolt potential; B)
- A description of the instrumentation used to determine radiation measurements, including the date and source of the most recent calibration for each instrument used; ĵ
- Conditions under which radiation measurements were taken; a
 - Survey data including: and (E
- Projected weekly dose equivalent in areas adjacent to the therapy room; and i.
- A description of workload, use and occupancy factors employed in determining the projected weekly dose equivalent. ii)
 - registrant shall retain a copy of the radiation protection survey report and a copy of the report shall be provided to the Department within 30 days after completion of the survey. The 4)
- Any deficiencies detected during the radiation protection survey that would constitute or result in a violation of 32 Ill. Adm. Code 340 shall be corrected prior to using the machine for treatment of patients. 2)
- The facility shall be operated in compliance with any limitations indicated by the therapeutic radiological physicist as a result of the radiation protection survey required by the Department. (9

q)

- Each x-ray therapy system installed after October 15, 1993 shall be calibrated by a therapeutic radiological physicist before the therapy system is first used for irradiation of a patient. The calibration of the x-ray therapy system shall include, but not be limited to, determination of the following: Calibrations and Quality Assurance Checks.
 - The radiation output, expressed as exposure rate in air or dose rate in tissue, as a function of distance, field size, x-ray tube potential and current, filters and treatment applicators used;
 - The half-value layer for each kilovoltage setting and filter B)

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- combination used;
- C) The degree of congruence between the radiation field and the field indicated by each beam-limiting device; and
- D) An evaluation of the uniformity of the radiation field.

 2) Quality assurance checks shall be made by a therapeutic radiological physicist at intervals not to exceed I year. Quality assurance checks shall include, but need not be limited
 - to, determination of the following:

 A) The radiation output for a set of operating conditions specified by the therapeutic radiological physicist;
- B) The coincidence of the radiation field and the field indicated by the beam-limiting device, except for systems equipped with fixed diaphragms or cones; and
- C) The therapeutic radiological physicist shall establish criteria for quality assurance check measurements and shall determine corrective actions to be implemented if the criteria are exceeded.
 - AGENCY NOTE: Quality assurance checks should be performed at a frequency which is appropriate for the particular therapy system, as determined by the therapeutic radiological physicist and based on the history of stability of the radiation output of the machine. A suggested frequency is one that would result in a quality assurance check being performed at least once during a typical patient's course of treatment.
- 3) Whenever service or maintenance is performed on the therapy system, a therapeutic radiological physicist shall be notified and shall determine whether a calibration or quality assurance check is necessary to verify the characteristics of the beam.
 - A) Measurements of the radiation output of the x-ray therapy system shall be performed using a dosimetry system that has been calibrated by a calibration laboratory accredited by the American Association of Physicists in Medicine (AAPM). Calibration of the dosimetry system shall have been performed using a radiation beam of comparable half-value layer to the x-ray system to be calibrated. The dosimetry system shall meet one of the two conditions below:
- A) The calibration of the dosimetry system shall have been performed within the previous 2 years and after any servicing that may have affected the calibration of the
 - dosimetry system; or

 B) The dosimetry system shall have been calibrated within the previous 4 years and shall have been subjected to a protocol which provides for checks of dosimetry constancy and provides for corrective action when results deviate by more
- than two percent from the expected values.

 5) The registrant shall maintain at the facility records of machine calibrations, quality assurance checks and instrument

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calibrations for inspection by the Department for a period of 5 years. Records to be maintained by the registrant shall include, but need not be limited to, the following:

-) Records of machine calibrations and quality assurance checks shall include identification of the x-ray therapy system, radiation measurements, the date the measurements were performed and the signature of the therapeutic radiological physicist who performed the measurements.
- B) Instrument calibration records shall include the date of the last calibration and identity of the calibration laboratory. If a dosimetry system has been subjected to a protocol as described in subsection (4)(4)(B) of this Section above, records shall be maintained that show the date and results of each constancy check performed on the system.
 - e) Operating Procedures
- No x-ray therapy system shall be left unattended unless the system is secured against unauthorized use.
 - When a patient must be held in position for radiation therapy, mechanical supporting or restraining devices shall be used.
- 3) Other than the patient, no individual shall be in the therapy room unless such individual is protected by a barrier sufficient to meet the requirements of 32 Ill. Adm. Code 340.
- 4) Other than the patient, no individual shall be in the therapy room during exposures from x-ray therapy systems operating above 150 kVp.
- 5) The x-ray therapy system shall not be used for treatment of patients unless the operator can maintain visual observation of the patient and audible communication with the patient.
- 6) On contact therapy systems, a shield of at least 0.5 millimeter lead equivalency at 100 kVp shall be positioned over the entire useful beam exit port during periods when the tube is energized and the beam is not being used.
- 7) The tube housing assembly shall not be held by hand during operating unless the x-ray therapy system is designed to require such holding and the peak tube potential of the system does not exceed 50 kilovolts. In such cases, the person holding the tube shall wear protective gloves and apron of not less than 0.5 millimeter lead equivalency at 100 kVp.

(Source: Amended at 22 Ill. Reg.

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effective

Section 360.120 Therapy Systems Operating at 1 MeV or Greater

In addition to the provisions of Sections 360.10 through 360.30 <u>of this Part</u>, the requirements of this Section apply to particle accelerator systems operating at energies of 1 MeV or greater. Accelerator systems capable of producing radioactive materials in excess of the exempt quantities specified in

be licensed pursuant NOTICE OF ADOPTED AMENDMENTS Code 330.Appendix B shall also provision of 32 Ill. Adm. Code 330. 32 Ill. Adm.

The registrant shall consult a therapeutic radiological physicist a) Facility Design

in the design of a particle accelerator installation. 2)

Shielding Requirements

installation shall be provided with such primary and secondary barriers as are necessary to assure compliance with 32 Ill. Adm. Code 340. Each accelerator A)

Facility design information for all accelerators installed review prior to installation. Information submitted to after October 15, 1993 shall be submitted to the Department the Department shall include, but need not be limited to, the following: for B)

Name and address of the planned installation;

Name, address and telephone number of the therapeutic radiological physicist who was consulted in the design of the installation;

A scale drawing that includes the location of the accelerator, control panel and doors to the room; iii)

of the The structural composition and thickness of all walls, ceiling and partitions, floor installation; doors, iv)

Calculations that demonstrate the adequacy of the The occupancy of areas adjacent to the installation; v) vi)

amount of shielding specified for each primary and

secondary protective barrier; and vii) Projected weekly dose rates in areas adjacent to the installation.

reason, the generation of radiation beams will automatically be An interlock shall be installed on each door of the The interlock shall be wired into the electrical in such a manner that when the door is opened for any terminated and irradiation can be resumed only by manually resetting the controls on the control panel after the door is therapy room. Interlock. 3)

Warning lights that indicate when the beam is on shall be provided in a readily observable position near the outside of all access doors to the therapy room. 4)

observation of the patient during irradiation and shall be located so that the operator can observe the patient from the Windows, mirrors, closed-circuit television or system shall be provided to permit continuous Viewing System. an equivalent control panel. 2)

AGENCY NOTE: When the primary viewing system is electronic, a failure of the primary system in order to ensure compliance with use in the event of the requirements of subsection (g)(l)(H) of this Section below. back-up system should be available for

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- communications between the patient and the operator at the control panel. The facility design shall permit two-way aural (9
 - 32 Ill. Adm. Code 340.920 shall be posted in Signs required by

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- The control panel shall be outside the therapy room.
- φ off buttons, locations that allow shutting off the machine from inside The facility design shall include emergency therapy room and at the control panel. (8)
- The doors to the therapy room shall be designed to allow opening from the inside at all times and shall be capable of being opened 10)
- Equipment Requirements Q Q
- Leakage radiation to the patient area shall be measured for each following performed on the accelerator, as be repeated determined by a therapeutic radiological physicist. Measurements shall service or accelerator. maintenance 7
- excluding neutrons, at any point in a circular plane of 2 of the maximum absorbed dose of the intersection of the central axis of the beam and the plane surface. Radiation measurements shall be averaged over an leakage meters radius centered on and perpendicular to the central axis of the beam at the isocenter or normal treatment distance and outside the maximum useful beam size shall not radiation, the absorbed dose due to leakage radiation, point area up to but not exceeding 100 square centimeters. conditions producing maximum аţ exceed 0.1 percent of the maximu unattenuated useful beam measured operating
 - Records of the most recent radiation leakage measurements and the machine parameters used during the survey shall B)
- maintained at the facility for inspection by the Department. interchangeable the useful beam at the normal treatment distance for the portion This requirement does not apply to auxiliary blocks or materials placed in the useful beam to shape beam-limiting devices shall transmit no more than two percent of the useful beam that is to be attenuated by the beam-limiting The neutron component of the useful beam shall not or the useful beam to the individual patient. Adjustable subject to this requirement. Devices. Beam-Limiting 2)
 - Source-Skin Distance (SSD) Indication 3)
- The SSD shall be indicated in centimeters and/or inches and A) Means shall be provided to indicate the SSD.
 - the measured SSD shall correspond to the indicated value within 0.5 percent.
 - 4)
- clearly marked with an identification number. Documentation A) Each filter that is removable from the system shall be available at the control panel shall contain a description For wedge filters, the wedge angle and of the filter.

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maximum design field size shall appear on the wedge or wedge

- subsection (d) of this Section below relate exclusively to operation with an x-ray field flattening filter or electron beam scattering filter in place, such filters shall be the machine calibration measurements required removable from the machine only by the use of tools. B)
- Equipment utilizing a system of wedge filters, interchangeable field flattening filters or interchangeable the following beam scattering filters shall meet requirements: ວ
- The equipment shall have an interlock that prevents irradiation if any filter selection operation carried out in the therapy room is not consistent with the selection of filter, beam type or beam energy at the control panel; and
- prevents irradiation if any selected filter is nct in The equipment shall have an interlock system that the correct position. ii)
- provided with a beam monitoring system in the radiation head Beam Monitoring System. All accelerator systems shall capable of monitoring and terminating irradiation. 2
- treatment control panel which shall register accumulated Each beam monitoring system shall have a display at monitor units. A)
- The beam monitoring system shall terminate irradiation when the preselected number of monitor units has been detected by the system. B)
 - shall be equipped with a primary and a secondary beam monitoring system. Each beam monitoring system shall be Accelerator systems manufactured after October 15, 1993 monitoring and terminating independently capable of irradiation. Û
- primary beam monitoring system shall terminate irradiation For units with a secondary beam monitoring system, the when the preselected number of monitor units has been The secondary beam monitoring system terminate irradiation if the primary system fails. detected. â
- An interlock device shall prevent irradiation if any beam monitoring system is inoperable. (i
- In the event of power failure, the display information required in subsection (b)(5)(A) of this Section above, F)
 - the symmetry of the radiation beam in two orthogonal directions before the beam passes through the The equipment shall provide means of terminating irradiation automatically if the difference in dose Beam Symmetry. For equipment equipped with beam bending magnets, shall be retrievable in at least one system for 20 minutes. monitored beam-limiting device. shall (9

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criteria rate between one region and another region exceeds specified by the manufacturer. Control Panel 7

- Selection and Display of Monitor Units A)
- Irradiation shall not be possible until a selection of a number of monitor units has been made at the control panel.
- The selected number of monitor units shall be displayed at the control panel until reset.
- to reset the accumulated beam monitor units before iii) After completion of irradiation, it shall be necessary treatment can be restarted.
- to terminate irradiation and equipment movements at any time be possible from the operator's position at the control panel. It shall Termination of Irradiation. B)
- Selection of Radiation Type. Equipment capable of both photon and electron therapy shall meet the following ပ
- Irradiation shall not be possible until the radiation type has been selected and displayed at the control panel.
- An interlock shall be provided to ensure that the machine will emit only the radiation type that has been selected. ii)
- An interlock shall be provided to prevent irradiation port films, when electron applicators are installed. to obtain with x-rays, except
 - An interlock shall be provided to prevent irradiation with electrons if accessories specific for x-ray therapy are installed. iv)
- Section of Radiation Energy. Equipment capable of producing beams of different energies shall meet the following requirements: radiation â
 - Irradiation shall not be possible until a selection of energy has been made at the control panel. j.
- An interlock shall be provided to ensure that the radiation machine will emit only the nominal energy of that has been selected.
 - iii) The nominal value of the energy selected shall be displayed at the treatment control panel.
- Equipment capable of both stationary and moving beam therapy shall Selection of Stationary or Moving Beam Therapy. meet the following requirements: (E
 - stationary therapy or moving beam therapy has been stationary therapy may be performed as a default The selection of selection if moving beam therapy is not selected. shall not be possible unless the control panel. Irradiation selected at

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- machine will operate only in the mode that has been to ensure that An interlock shall be provided selected. ii)
 - terminate irradiation if the gantry fails to move properly to provided pe during moving beam therapy. An interlock shall iii)
- of the Means shall be provided to prevent movement gantry during stationary therapy. iv)
 - The mode of operation shall be displayed at the control panel. <u>^</u>
- treatment control panel, as a back-up device to the beam Timers. A timer shall be provided with a display at monitoring system. E)
 - The timer shall permit presetting and determination of exposure times. i)
- The timer shall be a cumulative timer which activates with the production of radiation and retains its interrupted reading after irradiation is terminated. ii)
- irradiation when a preselected time has elapsed if the beam monitoring system has not previously terminated irradiation. shall terminate The timer iii)
 - Security. The control panel shall be capable of being set at zero, the timer shall not permit irradiation. (g
- Radiation Protection Survey. A radiation protection survey shall be The registrant shall maintain at the facility a copy of the most Department. Radiation protection surveys shall meet the following performed by a therapeutic radiological physicist on each accelerator. survey report for review by locked to prevent unauthorized use. protection additional requirements: radiation ο
 - each accelerator installed after October 15, 1993, a radiation protection survey shall be performed by a physicist be a person who did not consult in the design of the accelerator installation (see subsection (a) of this Section above) and is not employed by or within any corporation or partnership with the before the system is first used for irradiation of a patient. The physicist who performs the radiation protection survey shall person who consulted in the design of the installation.
- A radiation protection survey shall be performed by a physicist after any change in the accelerator or facility that might Such survey shall be performed before the system is used to treat patients. produce a radiation hazard. 2)
- A) A diagram of the facility which details building structures The survey report shall include, but need not be limited to, following: 3)

control panel, accelerator and

and the position of the

associated equipment;

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- radiation measurements, including the date and source of the of the accelerator system including the A description of the instrumentation used to determine manufacturer, model number, beam type and beam energy range; A description Û B)
 - Conditions under which radiation measurements were taken; most recent calibration for each instrument used;
 - Survey data including: (E)
- to A description of workload, use and occupancy factors employed in determining the projected weekly dose Projected weekly dose equivalent in areas adjacent the therapy room; and ii)
 - survey report and a copy of the report shall be provided to the The registrant shall retain a copy of the radiation protection equivalent. 4)
 - deficiencies detected during the radiation protection survey that would constitute or result in a violation of 32 Ill. Adm. 340 shall be corrected prior to using the machine for Department within 30 days after completion of the survey. treatment of patients. 2)
- The facility shall be operated in compliance with any limitations indicated by the therapeutic radiological physicist as a result of the radiation protection survey. (9
- Machine Calibration. Calibration measurements shall be performed on each accelerator system by a therapeutic radiological physicist before Subsequent calibrations shall be performed at intervals not exceeding the therapy system is first used for irradiation of a patient. q)
- 1) Calibration measurements shall include, but need not be limited to, the following determinations:
- Verification that the equipment is operating in compliance light localizer, variation in the axes of rotation for the table, gantry and jaw system and the beam flatness and symmetry at concerning with the design specifications the specified depth;
 - The absorbed dose rate at various depths in water for the range of field sizes used, for each beam type and energy; B)
 - The uniformity of the radiation field and any dependency upon the direction of the beam; _ω
- charts applicable to the specific machine continue to be Verification that existing depth-dose data and (Q
- Verification of transmission factors for all accessories trays and compensators, as valid or are updated to existing machine conditions; and wedges, shadow applicable. as (H
 - dosimetry system that has been calibrated by a calibration Calibration radiation measurements shall be performed using a laboratory accredited by the American Association of Physicists Medicine (AAPM), and meets the requirements of either 2)

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subsection (d)(2)(A) or (B) of this Section below:

- the servicing that may have The calibration shall have been performed within affected calibration of the dosimetry system; or previous 2 years and after any A)
 - The dosimetry system shall have been calibrated within the previous 4 years and shall have been: B)
- to a dosimetry system with calibration obtained within Compared at annual intervals following the calibration the previous 2 years from a calibration laboratory accredited by the AAPM, and the results of comparison indicate the calibration changed by more than two percent; or
 - has been physicist and that provides for checks of dosimetry constancy results deviate more than two percent from the expected a testing protocol that provides for corrective action when established by a therapeutic radiological to Subjected values. ii)

inter-comparison and constancy testing of calibrated the accuracy, reliability and reproducibility of the AGENCY NOTE: Redundancy is a basic tenet of radiation therefore the therapeutic radiological dosimetry instruments to assure, as much as possible, program measurements performed with those instruments. establish should dosimetry, physicist

Calibration of the radiation output of the accelerator shall be performed in accordance with: 3

- entitled "A Protocol for the Determination of Absorbed Dose from High-Energy Photon and Electron Beams" published in Medical Physics, Volume 10, pages 741-771 (1983), exclusive The protocol of Task Group 21, Radiation Therapy Committee, American Association of Physicists in Medicine (AAPM), of subsequent amendments or editions; or A)
- of X and Gamma Ray Beams with Maximum Energies Between 0.6 The protocol of the Scientific Committee on Radiation Dosimetry Volume 16, pages 379-396 (1971), exclusive of subsequent and 50 MeV", published in Physics, Medicine, and Biology, Dosimetry of the AAPM, entitled "Protocol for the amendments or editions; or â
- AGENCY NOTE: Copies of the two protocols referenced above registrant has submitted the protocols to the Department and the protocols cover the same topics as those contained in are available for public inspection at the Department of Other machine calibration protocols provided that subsections (d)(3)(A) and (B) τ of this Section above. Ω

The protocols may also be obtained directly from

Park Drive,

Nuclear Safety, 1035 Outer

Illinois.

the AAPM, One Physics Ellipse, College Park MD 20740-3846.

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- þe to exceed 2 years. shall system therapy independently verified at intervals not Independent verification shall consist of: each radiation output of 4)
 - radiological physicist who is not employed at the facility and does not perform the annual calibration; or ď þλ Verification of the machine output
- Alternate methods of verification of machine output, such as the use of mailed dosimetry devices, that use devices and procedures approved by the AAPM. B)
- Machine calibration records shall include identification of the accelerator calibrated, the results of the tests specified in subsection (d)(1) of this Section above and shall be signed and dated by the therapeutic radiological physicist who performed the 2)
- The registrant shall maintain at the facility, for a period of 5 years, records of machine calibrations, instrument calibrations and independent verifications of machine output for inspection by the Department. (9
- Quality Assurance Checks. A quality assurance (QA) check shall be system each calendar month. The interval between QA checks shall not QA checks shall also be performed after any change which could affect the radiation output, spatial distribution or other performed by a therapeutic radiological physicist on each therapy characteristics of the therapy beam, as determined by the physicist. Quality assurance checks shall also meet the following requirements: exceed 45 days. (e
 - 1) Quality assurance checks shall include determination of:
- A) The radiation output for a set of operating conditions specified by a therapeutic radiological physicist; and
 - The coincidence of the radiation field and the field indicated by the localizing device. B)
- Radiation measurements shall be obtained using a dosimetry system 2)
 - A) Meets the requirements of subsection (d)(2) of this Section above; or
- Has been directly compared by a therapeutic radiological physicist within the previous year with a dosimetry system which meets the requirements of subsection (d)(2) of this Section above. B)
 - The therapeutic radiological physicist shall establish criteria and shall determine the criteria are corrective actions to be implemented if quality assurance check measurements exceeded. 3)
 - The registrant shall retain a record of quality assurance check The record shall include the date of the quality the quality assurance check measurements and the signature of the assurance check, identification of the accelerator, results of measurements for inspection by the Department for a period individual who performed the quality assurance check. years. 4)

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Quality Control. A comprehensive quality control program shall be implemented as specified by a therapeutic radiological physicist and shall meet the following requirements: £)

in order to maintain radiation safety and clinical reliability. The program shall include as a minimum the items listed in Section 360.Appendix E of this Part. The program shall be designed to test the operation accelerator performance of the

The physicist shall specify the tolerance and frequency of performance for each item of the quality control program. 5)

The physicist shall specify what actions are to be taken for any item exceeding the specified tolerance. 3)

shall review, sign and date the results of the quality control program each calendar month. The physicist 4)

entitled "Physical Aspects of Quality Assurance in Radiation A copy of this report is available for public inspection at the Department of Nuclear Safety, 1035 Outer Park Drive, Springfield, Illinois. Report No. 13 may also be obtained directly from the AAPM, One Physics Ellipse, College Park MD AGENCY NOTE: The elements of a comprehensive quality control program are described in Report No. 13 published by the AAPM, Therapy" (1984). 20740-3846.

therapeutic radiological physicist establish written operating and emergency procedures and shall ensure that the procedures are implemented before the accelerator is used for treatment of patients. Operators of the current operating and emergency procedures shall be maintained the application of procedures before using the accelerator to irradiate patients. The registrant shall have a at the treatment control panel for use and review. accelerators shall receive training in Operating Procedures. б б

1) Operating procedures to be implemented shall include instructions

The accelerator is used in such a manner that patients, workers and the general public are protected from radiation hazards and the provisions of 32 Ill. Adm. Code 340 are met;

No accelerator shall be left unattended unless it is secured The safety interlock system shall not be used to turn off against unauthorized use; B) 0 The safety interlocks and warning systems required in subsections (a)(3), (a)(4) and (a)(9) of this Section above shall be tested for proper operation at monthly intervals; (Q

the beam except in an emergency;

Mechanical supporting or restraining devices shall be used when a patient must be held in position for radiation (E

No individual other than the patient shall be in the therapy room during irradiation; E)

therapeutic radiological physicist, shall be performed daily

Start-up procedures for the accelerator,

G)

specified by the

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prior to treatment of patients; and

The accelerator shall not be used for treatment of patients of the unless the operator can maintain visual observation patient and audible communication with the patient.

AGENCY NOTE: The operating and emergency procedures should Emergency procedures shall include instructions for alternate contain as a minimum the machine manufacturer's operations manual methods for termination of irradiation and machine movements. for the accelerator. 2)

Operating and emergency procedures shall include instructions for operational problems or emergencies occur and the actions that physicist are to be taken until the physicist can be contacted. therapeutic radiological the 3)

establish accelerator maintenance procedures that meet the following Machine Maintenance. The therapeutic radiological physicist h)

a therapeutic radiological physicist shall be notified of such 1) Whenever service or maintenance is performed on the accelerator, service or maintenance.

calibration or quality assurance check is necessary to verify the radiation beam generation, beam steering or monitoring of the of patients, the therapeutic radiological physicist shall review the service or maintenance report and shall determine whether a check is necessary, the calibration or quality assurance check involving characteristics of the beam(s). If the therapeutic radiological physicist determines that a calibration or quality assurance be performed before the accelerator is again used for beam, but before the accelerator is again used for treatment Following completion of service or maintenance treatment of patients. shall 2)

frequency of routine maintenance and ensure that records of all service and maintenance performed on the machine are maintained The therapeutic radiological physicist shall establish at the facility. 3)

The therapeutic radiological physicist shall sign and date records of all service and maintenance performed on the machine. 4)

The therapeutic radiological physicist shall specify the qualifications of maintenance personnel and prohibit non-qualified personnel from repairing the machine or adjusting personnel parameters on the machine. 5)

Circuit diagrams of the accelerator and interlock be maintained at the facility and kept current. (9

effective Reg. 111. (Source: MARIS 1998

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Section 360.APPENDIX A Medical Radiographic Entrance Exposure Measurement

specified in Section 360.60(e) of this Part. The instrument shall have been Radiation measurements shall be performed with a calibrated radiation measuring device that is sufficiently sensitive to determine compliance with the criteria calibrated within the previous 12 months with devices which have no more than a three-step (tertiary) calibration, traceable to the National Institute of The following protocol shall be used for measuring and calculating entrance Standards and Technology. Patients are not involved in the measurement (ESE) for routine diagnostic examinations. skin exposures protocol.

- Position the x-ray tube at the source-image receptor distance (SID) routinely used and adjust the collimation to the active portion a)
- the patient rests. Subtract the thickness of the patient to obtain Measure the distance from the x-ray source to the source against which the source-skin distance (SSD). The standard patient thickness for radiation measuring device size-routinely-used-for-the-examination. each projection to be measured shall be the following: Q Q

Thickness (cm) 23 23 23 23 23 13 15 Lumbo-Sacral Spine (AP) Chest (PA), Non-Grid Cervical Spine (AP) Chest (PA), Grid Skull (lateral) Abdomen (KUB) Projection Foot (D/P)

- reduce backscatter contribution. Placing the radiation measuring device at the actual source-skin distance (SSD) will accomplish this Place a radiation measuring device in the center of the useful beam, measure and record the distance from the source to the device (SDD). Use of a test stand to position the device away from the table will and allow direct reading of the ESE. σ
 - Set the exposure technique as follows: q
- For phototimed x-ray systems, set the controls to the exposure for the standard controls to the patient thickness specified in subsection (b) of this Section For non-phototimed x-ray systems, set the exposure technique used by the x-ray operator above. 7 5)
- thickness specified in subsection (b) of this Section above, and the x-ray operator for the standard patient use one of the two methods below: technique used by
- in the useful beam between the radiation measuring device Place an appropriate phantom (simulating body attenuation) and the radiographic tabletop; or

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- an appropriate exposure technique in the manual mode (without activation of the phototimer). B)
 - AGENCY NOTE: Specifications for appropriate phantoms are included in the American Association of Physicists in (AAPM) Report No. 31, entitled "Standardized Methods for Measuring Diagnostic X-Ray Exposures" (July Medicine
- AGENCY NOTE: A copy of this report is available for public inspection at the Department of Nuclear Safety, 1035 Outer Park Drive, Springfield, IL. Copies of this report may also be obtained from the AAPM, One Physics Ellipse, College Park MD 20740-3846.
- Make a radiographic exposure (without patient) and record the reading obtained from the radiation measuring device (e
- using the radiation exposure reading from subsection (e) of this from subsection (e) of this Section above multiplied by the Section above and the equation in this subsection (f) below (if a direct result was not obtained with the dosimeter at the SSD) - The entrance skin exposure equals the product of the radiation exposure Calculate the entrance skin exposure for the specific examination, mathematically represented by the equation below (if a direct result SDD, to the SSD. This expression was not obtained with the dosimeter at the SSD); square of the ratio of the f)

ESE = (Dosimeter Reading) X [SDD/SSD](2)

SDD = source-radiation measuring device distance SSD = source to - skin distance where:

- Compare the results of the calculation from subsection (f) of this Section above with the criteria specified in Section 360.60(e) of this Part to determine compliance. 6
- AGENCY NOTE: There are many different techniques for measuring ESE which may result in significant differences in measured values. backscatter, collimation, estimation of focal spot location, choice of these variations, the procedure for determining the ESE should be Factors that can cause variations include instrument calibration, performed with strict attention to each detail noted above. phantom, location of dosimeter in the primary beam, etc.

Reg. 111. 22 MAR 1 3 1998 (Source: Amended

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Section 360.APPENDIX B Mammography Dose Measurement Protocol

The technique factors used for performing a mammography examination shall not Section 360.71(h) of this Part. Radiation measurements shall be performed with an integrating radiation measuring device that is appropriate to the high beam intensity and mammographic kilovoltage peak (kVp) used, and sufficiently sensitive to determine compliance with the criteria specified in Section 360.71(h) of this Part. The instrument shall have been calibrated within the previous 12 months with devices which have no more than a three-step (tertiary) calibration, traceable to the National Institute of Standards and Technology. permit the mean glandular absorbed dose to exceed the limits specified

The mammography exam dose limits are based on an average compressed breast value of $\frac{4.2}{4.5}$ 4.5 centimeters having an average density (i.e., 50 percent an average density (i.e., 50 percent adipose and 50 percent glandular).

Perform the following steps to determine the mean glandular dose to a nominal 4.24.5- centimeter compressed breast:

Measure and record the x-ray system's useful beam half-value layer (HVL). (See Section 360.71(e) of this Part.) Any compression device normally in the useful beam during mammography procedures shall be required to be placed between the x-ray tube target and measuring device when determining the HVL. The useful beam shall be collimated to a size encompassing the detector.

millimeter of aluminum equivalent (see Section 360.71(e) of this AGENCY NOTE: Filters used for the HVL evaluation should be placed as close to the target as practical. The HVL forscreen-film mammography should not exceed the minimum acceptable HVL by more than 0.1 Part), and 1.6 millimeters of aluminum equivalent for xerography.

Mammography Dose Evaluation Table (see Section 360.Table A of this Determine the glandular dose to entrance exposure factor from the Part) using the appropriate HVL, kVp and x-ray tube target-filter material. (q

AGENCY NOTE: The kVp of screen-film mammography systems with molybdenum target-filter combinations should be accurately measured to determine the appropriate glandular dose to entrance exposure factor from Section 360. Table A of this Part.

If the equipment has the capability for variable source-image receptor distance, set the craniocaudal source-image receptor distance (SID) for the image receptor system used. ô

compression device should be lowered to a position 4.2 4.5 centimeters mammography systems have the capability of providing automatic adjustment of technique factors through feedback from the position of the compression device. On such systems, the above the breast support assembly (BSA). The device should then be inverted and replaced to allow placement of the phantom and measuring device on the BSA below the compression device. If the compression device cannot be replaced in an inverted position, the Position in the useful beam any compression apparatus normally used. NOTE: Some q)

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- device should be placed in the beam using auxiliary support. Placement of the Radiation Measuring Device (e
- Place a properly loaded film cassette in the cassette 1) For systems equipped with automatic exposure control (AED):
- AGENCY NOTE: The loaded cassette is placed in the cassette holder to simulate, as much as is possible, the conditions Following radiation measurements, the film should be discarded and the which actual patient exposures are made. cassette reloaded with unexposed film.
- breast support assembly (BSA). Align the phantom so that BSA and the phantom is over the automatic exposure the edge of the phantom is aligned with the chest wall side control device(s). B)
- device shall be positioned $\frac{4.2}{1.2}$ $\frac{4.5}{1.5}$ centimeters above the BSA, 2.5 centimeters from the chest wall edge of the BSA and Place a radiation measuring device in the useful beam so the center axis of the device is parallel to the breast support assembly (BSA). The geometric center of the measuring immediately adjacent to either side of the mammography phantom. Û
- the chest wall edge of the BSA and at the center line of the BSA-(see Section 360.Illustration A of this Part). No part of the device's detector area shall be outside of the useful beam. is parallel to the breast support assembly (BSA). The geometric center of the measuring device shall be positioned so that it is For systems not equipped with AEC, place a radiation measuring device in the useful beam so that the center axis of the device centered 4.2 4.5 centimeters above the BSA, 2.5 centimeters from 5)
- Collimate the x-ray field to the size normally used and assure that the area covered by the useful beam includes the detector area of the radiation measuring device and the mammography phantom if equipment is equipped with automatic exposure controls. £)
- Set the appropriate technique factors or automatic exposure controls normally used for a nominal 4.2 4.5- centimeter compressed breast. g)
 - Measure and record the exposure in air with the radiation measuring h)
- Measure and record the time of the exposure required in subsection (h) of this Section above. The time for the exposure shall be equal to or less than 2.5 seconds (see Section 360.71(i) of this Part). i)
- Calculate the mean glandular dose for a $\frac{4.2}{4.5}$ d.5- centimeter compressed breast by multiplying the measured exposure in millicoulombs per kilogram or in roentgens by the glandular dose to entrance exposure which was determined using the procedure described in subsection (b) of this Section above. j.

molybdenum Ø Example: A mammography system is provided with

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combination, and the HVL and kVp are determined to be 4.24.5- centimeter compressed breast, the grandular dose to entrance exposure factor from the Mammography Dose Evaluation Table (Section 360. Table A of this Part) would be 159 149 mrad. The measured roentgen output determined Therefore, the mean glandular dose would be 1.8 R multiplied by 159 149 mrad/R. This results in a mean glandular dose measurement of 286 268 mrad. If the image receptor type used wasscreen-film with grid, the system would be in compliance with Section 360.71(h)(2) of this in subsection (h) of this Section is determined to Therefore, for a 0.3 and 30, respectively. target-filter

effective Reg. 111. (Source: Amended at 22

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Section 360.APPENDIX C Mammography Phantom Image Evaluation

Adm. Code 410. The evaluation shall be performed with the mammography phantom evaluation shall be performed using the procedure below. The evaluation shall be performed monthly as a part of the quality part of the routine inspection required by specified in Section 360.71(j)(2) of this Part. Mammography phantom image assurance program and as

a) Equipment necessary for mammography phantom image evaluation includes a densitometer, the mammograhpy phantom and mammographic cassette and Load film in the mammographic cassette according to the manufacturer's instructions. (q

Place the properly loaded cassette in the cassette holder. g ()

Place the mammography phantom on the breast support assembly (BSA) so Align the phantom so that the masses in the phantom are nearest the chest wall edge of the BSA and the fibers in the phantom that the edge of the phantom is aligned with the chest wall side of wall edge of the BSA. If the mammography machine has the capability of automatic exposure control, place the phantom so that the phantom covers the phototimer sensor. are away from the chest

Position the compression device so that it is in contact with the phantom. (e

Select the technique factors used most frequently in the clinical setting for a 4.24.5- centimeter compressed breast and make an exposure of the phantom. E)

Process the film in the processor used for clinical mammography films. Examine the processed image for areas of non-uniformity of optical g (q

density and for the presence of artifacts due to dirt, dust, grid

The processed image, the mammography machine film processor and film phantom image evaluation should be repeated after the problem is AGENCY NOTE: If any of the problems noted above are evident on cassette(s) should be evaluated and the problem corrected. lines or processing. corrected.

Measure and record the optical density of the film near the center of i)

the phantom image.

optical density of the film should be between 1.10 the phantom image may not have enough contrast to visualize the objects necessary to determine compliance with the criteria of Section 360.71(j)(4) of this Part. Potential causes of film optical density include use of improper technique factors and either this range, and 1.50. If the density of the phantom image is not in over-processing or under-processing the film. AGENCY NOTE: The problems

Examine the phantom image and count and record the number of masses visualized. Repeat this procedure for the speck groups and the fibrils and record the number of objects visualized. There are a total of 16 imaging objects (5 masses, 5 speck groups and 6 fibrils) in the phantom. Evaluation criteria for objects visualized in the

j

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As a minimum, the masses that are 0.75 millimeter or larger (a total of the objects that must be visualized in the phantom image are: phantom image are in Section 360.71(j)(4) of this Part.

- the speck groups that are 0.32 millimeter or larger (a total of 3 5)
- the fibrils that are 0.75 millimeter or larger (a total of speck groups);

compared with previous films, including the original phantom image, to determine if subtle AGENCY NOTE: The phantom image should be changes are occurring from month to month. fibrils). 3)

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Section 360.APPENDIX D Computed Tomography Dose Measurement Protocol

have been calibrated within the previous 12 months with devices which have no with a calibrated radiation measuring device that is designed for computed more than a three-step (tertiary) calibration, traceable to the National Institute of Standards and Technology. Measurements shall be specified in terms of the multiple scan average dose (MSAD) and shall be performed with a tomography (CT) dose measurements. The radiation measuring instrument shall specialist Radiation measurements shall be performed by a diagnostic imaging head phantom specifically designed for making CT dose measurements.

requirements of the Code of Federal Regulations, 21 CFR 1020.33(b)(1). While the CTDI is carefully defined, it is difficult to measure accurately. The MSAD the computed tomography dose index (CTDI) and the multiple scan average dose (MSAD). Manufacturers of CT systems measure and report CTDI pursuant to the is easily measured and was the CT dose descriptor used by the Center for of X-Ray The CTDI is equivalent to the MSAD for a series of 14 chosen as the dose descriptor for this Part due to the ease of measurement and the applicability of the data generated for comparisons with the results of the AGENCY NOTE: There are two terms used to describe CT dosimetry measurements, Devices and Radiological Health (FDA) in the Nationwide Evaluation Trends (NEXT). The CTDI is equivalent to the MSAD for contiguous scans spaced by the nominal tomographic thickness. NEXT study.

- a) CT dose measurements shall be performed using a head phantom that meets the following requirements:
- of polymethyl-methacrylate of density 1.19 plus or minus 0.01 grams circular cylinder a right pe shall per cubic centimeter. phantom
- The phantom shall be at least 14 centimeters in length and shall have a diameter of 16 centimeters.
- The phantom shall provide means for the placement of a radiation measuring device in the center of the phantom along its axis of rotation. 3)
 - Set up procedure p)
- gantry aperture and position the gantry so that it is perpendicular to the patient support device. Align the phantom so that the tomographic plane is centered along the axis of the on the patient support device and in the patient head rest, if available. Center the phantom in the Place the phantom
 - the center of the phantom is aligned to within plus or minus 0.5 Make a single scan of the phantom and determine if the center of the phantom is aligned with the axis of rotation of the scanner. If necessary, realign the phantom and repeat this procedure until centimeters of the axis of rotation of the CT scanner. 2)
- Place the radiation measuring device in the center
- Exposure measurement ω υ
- the tomographic 1) Select and record the technique factors and

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section thickness most frequently used for a CT examination of the head.

the head.

AGENCY NOTE: If routine CT examinations of the head are performed at the facility using a different tomographic section thickness for the top or bottom part of the head, the larger tomographic section thickness should be used for measurement of the MSAD.

2) Perform a single CT scan and record the exposure reading from the radiation measuring device. Repeat this procedure, without advancing the table or phantom, three times for a total of four scans and determine the average exposure reading for a single scan.

d) Calculation of MSAD

 The MSAD shall be calculated using the mathematical expression below:

 $MSAD = (E \times f \times K \times L) / T$

where:

E = average exposure reading in coulombs per kilogram or in milliroentgens.

f = factor to convert exposure in air to absorbed dose in tissue
 or other attenuating matter, in grays per coulomb per
 kilogram or in rad per milliroentgen. For acrylic, at an
 effective energy of 70 KeV, f is equal to 30.2 Gy per C/kg
 (0.78 x 10(-3) rad/mR).

K = calibration factor to account for the radiation measuring device's response and volume.

L = effective length of the radiation measuring device in millimeters.

T = thickness in millimeters of the tomographic section selected.

AGENCY NOTE: This calculation assumes tomographic sections are contiguous, without overlap of sections or gaps between sections. EXAMPLE: The measurement is made with an ion chamber with an effective length of 100 millimeters and a calibration factor of 1.99. The thickness of the tomographic section from subsection (c)(1) of this Section above is 10 millimeters. The average exposure reading from subsection (c)(2) of this Section above is determined to be 306 mR. The MSAD is calculated as follows:

MSAD = $(306 \times 0.78 \times 10(-3) \times 1.99 \times 100) / 10$ MSAD = 4.7 rad

2) If the tomographic sections overlap, the MSAD must be multiplied by a fraction which is the thickness of the tomographic section

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divided by the scan increment.

EXAMPLE: Calculate the corrected MSAD for scan overlap technique, in a continuation of the above example, assume a scan increment of 5 millimeters.

Corrected MSAD = MSAD X (T / scan increment)
Corrected MSAD = 4.7 X (10 / 5)
Corrected MSAD = 9.4 rad

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centimeter thickness compressed breast of average density (50 percent adipose and 50 percent glandular tissue). Values listed are for the first half-value This table is used to determine the mean glandular dose in milligrays delivered in millimeters of aluminum (mm Al), for x-ray tube target-filter by 25.8 mC/kg (or millirad) delivered by IR in air incident on a 4.24.5combinations of molybdenum/molybdenum (Mo/Mo) and tungsten/aluminum (W/Al). Linear extrapolation or interpolation shall be made for any HVL not listed. Section 360.TABLE A Mammography Dose Evaluation Table layer (HVL)

Mean Glandular Dose in milligrays for 25.8 mC/kg (or millirad for 1 R, Entrance Exposure for a 4.24.5- Centimeter Compressed Breast of Average Density

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Section 360. TABLE A Mammography Dose Evaluation Table

centimeter thickness compressed breast of average density (50 percent adipose layer (HVL) in millimeters of aluminum (mm Al), for x-ray tube target-filter combinations of molybdenum/molybdenum (Mo/Mo) and tungsten/aluminum (W/Al), This table is used to determine the mean glandular dose in milligrays delivered and 50 percent glandular tissue). Values listed are for the first half-value by 25.8 mC/kg (or millirad) delivered by 1 R in air incident on a 4.24+5-Linear extrapolation or interpolation shall be made for any HVL not listed. Mean Glandular Dose in milligrays for 25.8 mC/kg (or millirad for 1 R, Entrance Exposure for a 4.24.5- Centimeter Compressed Breast of Average Density

_	_	$\overline{}$		_			_	_	-	-			_										-		
	W/AL Larget-	Filter Combination								170	175	081	185	061	194	129	304	208	213	217	221	222	230	234	238
		E										171	221	129	183	187	161	इता	200	204	208	212	216		
2		ន										170	174	178	182	186	181	इहा	199	204	208	2112	212		
	-	F.									164	891	123	727	181	185	81	194	198	203	202	177			
1	SE IKYD	R								159	163	891	123	92.1	780	185	182	193	861	202	506				
Mo/Mo Target-Filter X-Ray Tube Voltage (kVp)	100 4 2011	53							न्द्रा	158	791	791	171	17.5	179	184	188	761	197	201					
,	A-Kav	78						149	153	731	191	991	170	<u>F/1</u>	178	183	187	161	196						
	argetering	22					143	771	ाडा	951	091	164	691	777	7.71	781	186	ळा							
	MO/MO	97				8हा	751	146	ठइा	331	159	दृश	891	727	921	181	185								
		23			ाश	द्धा	140	771	148	हडा	157	791	991	171	221	179									
		22		124	129	<u> </u>	138	142	146	151	951	791	165	170	174										
		23	116	ונו	971	730	325	140	144	149	154	158	दुश	168											
	i i	(mm AL)	0.23	0,24	0.25	0.26	0.27	0.28	0.29	0.30	15.0	0.32	0.33	0.34	0.35	9570	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45

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WAJ Target	Filter Combination								oc t	\$2.1	081	581	ONT.	7 6†	661	702	208	ftt	2112	1777	ऽट ट	off?	23.4	8778
	#										991	191	891	12	977	3 8	28	881	261	961	500	204		
	æ										99	164	891	27.7	176	şţ	681	£81	2 61	981	500			
	#									151	93,	591	194	7.	11	87.1	183	981	₫	201				
MaMa Target Filter X Ray Tube Voltage (RVp)	28								149	551	851	1,61	3	07.1	7	8 <u>7</u>	183	981	3 \$	4				
	et.							144	148	34	35	091	191	69	17	1	78	581	58					
X Rej	82						of t	143	147	151	551	ost	691	89t	Ez t	921	081	181						
erget Filt	R					134	861	142	146	051	154	851	291	<i>t</i> 91	#	55	621							
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	**			121	97.1	or i	151	6E1	4	4	\$	551	994	191	891									
	7.		91	021	124	821	tri	tft	4	4	051	151	951	£91										
	22	907	#	#	t c t	971	0€1	54:1	9F.T	4	3	551	3											
M	, (mm Alb.)	12.0	9.24	52.0	97-0	6.27	82.0	67-0	05.0	16-0	75-0	110	15-0	56.0	96.0	15.0	8E-0	65"0	0.40	17-0	21-0	64-9	97-0	57-0

FOF Mammography: Medical Physicist's Section, Revised Edition, 1994 Manual; -- 19927 Manual Control Quality American-College-of-Radiology/American-Cancer-Society. from: Mammography Adapted NOTE:

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Section 360. TABLE B Half-Value Layer as a Function of Tube Potential

Minimum HVL (mm of Al)(1) X-ray Tube Voltage (kilovolt peak)

Systems (3) Other X-Ray 2.1 2.3 2.5 2.7 2.7 3.0 3.2 3.5 0.3 1.3 Systems (2) Specified Dental 1.5 1.5 2.1 2.3 2.5 2.7 1.5 1.5 Operating Potential Measured 30 40 49 71 80 90 100 110 1120 1130 1140 50 Designed operating 50 to 70 Below 50 Above 71

(1) Linear extrapolation or interpolation may be made for an x-ray tube potential (kVp) not listed in the table Wabte-B above (e.g., in the column entitled "Other X-ray Systems" operated at 20 kVp and 95 kVp, the minimum HVL required would be 0.2 and 2.6 millimeters of aluminum respectively).

nse (2) "Specified Dental Systems" means any dental x-ray system designed for with intraoral image receptors and manufactured after December 1, 1980. (3) "Other X-Ray Systems" means all x-ray systems required to meet the provisions of Sections 360.50, 360.60, 360.75, 360.90 (except "Specified Dental Half-value layer requirements for mammography systems are specified in Section 360.71(e) of this Part. Systems") and 360.100 of this Part.

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a)

Skilled Nursing and Intermediate Care Facilities Code, 77 Ill. Adm. Code Sheltered Care Facilities Code, 77 Ill. Adm. Code 330 Part(s) (Heading and Code Citation):

Intermediate Care for the Developmentally Disabled Facilities Code, Illinois Veterans' Homes Code, 77 Ill. Adm. Code 340

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Long-Term Care for Under Age 22 Facilities Code, 77 Ill. Adm. Code 390 Community Living Facilities Code, 77 Ill. Adm. Code 370

1) Rulemaking:

- the prospective resident to consult a physician to The rules will be amended in 10, 1997), which to state that before a prospective resident's admission to a facility, the facility shall resident should obtain response to P.A. 90-0366 (effective August vaccination against pneumococcal pneumonia. Care Act determine whether the prospective A Description of the Rule(s): the Nursing Home A)
- Implementing and authorized by the Nursing Statutory Authority: Imp Home Care Act [210 ILCS 45] B)
- for public participation: These rules were considered at the Schedule of dates for hearings, meetings, or other opportunities Long-Term Care Facility Advisory Board, November 18, 1997. Û
- Date agency anticipates submitting to the Administrative Code Division a Notice of Proposed Amendments for publication in the Illinois Register: April 1, 1998. (Q
- Will this amendment affect small businesses, small municipalities corporations? This rulemaking will affect long-term care facilities. or not for profit (E)
- Information concerning this regulatory agenda shall be directed E)

Administrative Rules Coordinator 535 West Jefferson, 5th Floor Division of Legal Services Springfield, IL 62761 217/782-2043 Gail DeVito

Other pertinent information concerning this amendment: None 3

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Part(s) (Heading and Code Citation): (q

Skilled Nursing and Intermediate Care Facilities Code, 77 Ill. Adm. Code 77 Intermediate Care for the Developmentally Disabled Facilities Code, Community Living Facilities Code, 77 Ill. Adm. Code 370 Long-Term Care for Under Age 22 Facilities Code, 77 Ill. Adm. Code 390 Hospital Licensing Requirements, 77 Ill. Adm. Code 250 Home Health Agency Code, 77 Ill. Adm. Code 245 Sheltered Care Facilities Code, 77 Ill. Adm. Code 330 Illinois Veterans' Homes Code, 77 Ill. Adm. Code 340

Rulemaking: 1)

- "disqualifying crimes" to Section 25; to add a provision that an the employee after January 1, 1996, and prior to August 16, 1997; amended the Health Care Worker Background Check Act to add employer need not initiate an additional background check for an employee if the employer initiated a criminal background check for is suspended from conducted under the Act and the results prompting the suspension are subsequently found to be inaccurate, the health care worker is for the suspension period provided that the employer is the cause The rules will be amended in 16, 1997), which employment based on the results of a criminal background check entitled to recover back pay from his or her health care employer to provide that if a health care worker response to P.A. 90-0441 (effective August A Description of the Rule(s): of the inaccuracy. A)
- by the Health Statutory Authority: Implementing and authorized Care Worker Background Check Act [210 ILCS 46] B)
- Schedule of dates for hearings, meetings, or other opportunities for public participation: Û

on Hospital Licensing Board on Council Part 245 was considered by the Home Health Advisory was considered by the November 12, 1997. January 7, 1998. Part 250

Parts 300, 330, 340, 350 and 390 were considered by the Care Advisory Board on November 18, 1997.

Part 370 was considered by the State Board of Health on December

Division a Notice of Proposed Amendments for publication in the Date agency anticipates submitting to the Administrative Code Illinois Register: April 1, 1998 Q

DEPARTMENT OF PUBLIC HEALTH

1998 REGULATORY AGENDA

- E) Will the rulemaking(s) affect small business, small municipalities or not for profit corporations? The rulemakings will affect long-term care facilities, hospitals, and home health agencies, respectively.
- F) Information concerning this regulatory agenda shall be directed to:

Gail DeVito
Administrative Rules Coordinator
Division of Legal Services
535 West Jefferson, 5th Floor
Springfield, IL 62761
217/782-2043

G) Other pertinent information concerning this amendment: None

Part(s) (Heading and Code Citation):

Skilled Nursing and Intermediate Care Facilities Code, 77 Ill. Adm. Code 300

Sheltered Care Facilities Code, 77 III. Adm. Code 330 Illinois Veterans' Homes Code, 77 III. Adm. Code 340 Intermediate Care for the Developmentally Disabled Facilities Code, III. Adm. Code 350

77

Community Living Facilities Code, 77 Ill. Adm. Code 370 Long-Term Care for Under Age 22 Facilities Code, 77 Ill. Adm. Code 390

1) Rulemaking:

- response to P.A. 90-0341, the Alzheimer's Special Care Disclosure Act. The Act requires a long-term care facility that offers to provide care for persons with Alzheimer's Disease through an Alzheimer's special care unit or center to disclose to the Department and to potential or actual clients certain information specified in the Act.
- B) <u>Statutory Authority:</u> Implementing and authorized by the Alzheimer's Special Care Disclosure Act and the Nursing Home Care
- C) <u>Schedule of dates for hearings, meetings, or other opportunities</u>
 <u>for rublic participation:</u> These rules were considered at the
 Long-Term Care Facility Advisory Board, November 18, 1997.
- D) Date agency anticipates submitting to the Administrative Code Division a Notice of Proposed Amendments for publication in the

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DEPARTMENT OF PUBLIC HEALTH

1998 REGULATORY AGENDA

Illinois Register: April 1, 1998

- E) Will this amendment affect small business, small municipalities or not for profit corporations? This rulemaking will affect long-term care facilities.
- F) Information concerning this regulatory agenda shall be directed to:

Gail Devito Administrative Rules Coordinator Division of Legal Services 535 West Jefferson, 5th Floor Springfield, IL 62761 217/782-2043 G) Other pertinent information concerning this amendment: None

d) Part(s) (Heading and Code Citation):

Skilled Nursing and Intermediate Care Facilities Code, 77 Ill. Adm. Code 300
Sheltered Care Facilities Code, 77 Ill. Adm. Code 330
Illinois Veterans' Homes Code, 77 Ill. Adm. Code 340
Intermediate Care for the Developmentally Disabled Facilities Code, 77
Ill. Adm. Code 350

Community Living Facilities Code, 77 Ill. Adm. Code 370 Long-Term Care for Under Age 22 Facilities Code, 77 Ill. Adm. Code 390

1) Rulemaking:

- Medicare/Medicaid standards; clarify and update recreational and for electronic authentication of medical records. In addition, dietary the Department of Professional Regulation; clarifying and adding requirements for dietician consultation; clarifying requirements recognizing the Recommended Dietary Allowances of the Food and Nutrition Board of the National Research Council, National Academy These amendments will update communicable disease policies, including tuberculin skin testing; update nursing and personal care requirements to parallel federal rules will be amended by recognizing licensure of dieticians by changing menu pattern requirements; of Science. Appendices containing outdated material will requirements prescribe A Description of the Rule(s): program requirements; orders and repealed. A)
- B) Statutory Authority: Implementing and authorized by the Nursing Home Care Act [210 ILCS 45].

DEPARTMENT OF PUBLIC HEALTH

1998 REGULATORY AGENDA

- Schedule of dates for hearings, meetings, or other opportunities for public participation: These rules were discussed at the Long-Term Care Facility Advisory Board meeting of February ĵ
- Date agency anticipates submitting to the Administrative Code Division a Notice of Proposed Amendments for publication in the Illinois Register: May 1, 1998 Q Q
- This rulemakings will affect Will this amendment affect small business, small municipalities or for profit corporations? long-term care facilities. not (E
- Information concerning this regulatory agenda shall be directed to: <u>E</u>

Administrative Rules Coordinator 535 West Jefferson, 5th Floor Division of Legal Services Springfield, IL 62761 217/782-2043 Gail DeVito

- None Other pertinent information concerning this amendment: Û
- Part(s) (Heading and Code Citation): (e

Skilled Nursing and Intermediate Care Facilities Code, 77 Ill. Adm. Code Intermediate Care for the Developmentally Disabled Facilities Code, Ill. Adm. Code 350 300

Long-Term Care for Under Age 22 Facilities Code, 77 Ill. Adm. Code 390

1) Rulemaking:

- developmental disability (DD) aide training course. Provisions Rule changes will clarify requirements for developmental disabilities aides, including time frames for complying with requirements for inclusion on the Nurse for certification of foreign nurses as DD aides, including in and completion required documentation, will be added to the rules the Rule(s): Aide Registry and enrollment οĘ A Description A)
- the Implementing and authorized by Home Care Act [210 ILCS 45]. Statutory Authority: B)
- for public participation: These rules were discussed at the Schedule of dates for hearings, meetings, or other opportunities ô

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DEPARTMENT OF PUBLIC HEALTH

1998 REGULATORY AGENDA

Care Facility Advisory Board meeting of February 4,

Division a Notice of Proposed Amendments for publication in the the Administrative Date agency anticipates submitting to

â

Will this amendment affect small business, small municipalities or not for profit corporations? This rulemakings will long-term care facilities. (E)

Illinois Register: May 1, 1998

Information concerning this regulatory agenda shall be directed to: E)

Administrative Rules Coordinator 535 West Jefferson, 5th Floor Division of Legal Services 62761 Springfield, IL 217/782-2043 Gail DeVito

- None Other pertinent information concerning this amendment: 6
- Part(s) (Heading and Code Citation): f)
- Emergency Medical Services and Trauma Center Code
- Rulemaking: 1)
- or regional need for establishing such EMS system or trauma center to approve development of a new EMS system or trauma center only when a local Amendments will implement provision in the EMS Act that requires the Department A Description of the Rule(s): has been identified. A)
- Implementing and authorized by the Emergency Statutory Authority: Implementing and authorized Medical Services (EMS) System Act [210 ILCS 50]. B)
- Schedule of dates for hearings, meetings, or other opportunities Spring Advisory Council, State EMS for public participation: 0
- the Administrative Code Division a Notice of Proposed Amendments for publication to Date agency anticipates submitting Illinois Register: May 1, 1998 (O
- Will this amendment affect small business, small municipalities or This rulemaking will affect for profit corporations? not E)

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DEPARTMENT OF PUBLIC HEALTH

1998 REGULATORY AGENDA

providers of emergency medical services.

Information concerning this regulatory agenda shall be directed

Administrative Rules Coordinator 535 West Jefferson, 5th Floor Division of Legal Services Springfield, IL 62761 217/782-2043 Gail DeVito to: н Э

G) Other pertinent information concerning this amendment: None

JOINT COMMITTEE ON ADMINISTRATIVE RULES ILLINOIS GENERAL ASSEMBLY

SECOND NOTICES RECEIVED

The following second notices were received by the Joint Committee on Administrative Rules during the period of March 10, 1998 through March 16, 1998 and have been scheduled for review by the Committee at its April 21, 1998 meeting in Springfield. Other items not contained in this published list may also be considered. Members of the public wishing to express their views with respect to a rule should submit written comments to the Committee at the following address: Joint Committee on Administrative Rules, 700 Stratton Bldg., Springfield IL 62706.

Second Notice Expires	<u>Agency and Rule</u>	Start of First Notice	JCAR Meeting
4/23/98	Department of Insurance, Portability of Cred- itable Service Time for Downstate and Sub- burban Police Pension Funds (50 Ill Adm Code 4404)	12/19/97 21 I11 Reg 16241	4/21/98
4/26/98	<pre>Illinois Commerce Commission, Telephone Assistance Programs (83 Ill Adm Code 757)</pre>	12/19/97 21 I11 Reg 16212	4/21/98
4/29/98	Department of Public Aid, Medical Assistance Programs (89 III Adm Code 120)	1/9/98 22 Ill Reg 1103	4/21/98

EXECUTIVE ORDER

BANGLADESH DAY (REVISED)

Whereas, the Bangladeshi community is part of the rich ethnic background of Whereas, Illinois is home to several thousand Bangladeshi emigrants; and

Whereas, the Bangladesh Association of Greater Chicagoland was founded in and visitors in becoming familiar with the American way of life, and to develop 1981 to enhance Bangladeshi culture, to assist Bangladeshi emigrants, students, and promote friendship and relationships among its members, the community, and other organizations; and

Whereas, the 27th Independence Day of Bangladesh will be celebrated in Illinois on March 21, a day which marks the country's realization of freedom in 1971 and honors those who gave their lives for freedom's cause;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 21, 1998, as BANGLADESH DAY in Illinois.

Filed by the Secretary of State March 6, 1998. Issued by the Governor January 5, 1998.

PROCLAMATIONS

NURSING HOME WEEK (REVISED)

Whereas, the long-term care facilities in Illinois are dedicated to providing the finest in health care and rehabilitation for ur convalescent, aged and chronically ill citizens; and

Whereas, this dedication has been forcefully demonstrated through continual striving to upgrade standards of care and improve service; and

sponsoring "The Quality of Caring" activities in observance of National Nursing Illinois Health Care Association and its member facilities are Home Week beginning May 10, 1998; Whereas,

Therefore, I, Jim Edgar, Governor of the State of Illinois proclaim May 10-16, 1998, as NURSING HOME WEEK in Illinois.

Filed by the Secretary of State March 12, 1998. Filed by the Governor March 11, 1998.

GENE REINEKE DAY

Illinois while he's been at the public trough for the last 18 years, serving as Governor Edgar's "staff director" since December 1994, taking on a "whole host" Whereas, Gene Reineke has made significant contributions to the State of of new issues; and

Whereas, Gene's departure means the Governor is losing his chief Senate liaison because, as Pate believes, "Reineke is the only one down there who thinks like me;" and

notably the young press secretary whom Gene had the pleasure of banishing from Whereas, Gene will miss his close friends, the House Republicans, most a press conference in the Governor's Office; and

Two examples that quickly come to mind are Gene's volunteering to take jobs at Whereas, the Governor truly appreciates Gene's willingness to volunteer. the Illinois Republican Party and the 1992 Bush/Quayle campaign; and

Whereas, Gene's performance with the 1992 Bush campaign juggernaut meant he was truly destined to serve at the highest level of state government; and has now Whereas, Gene attempted an amateur boxing career but

Whereas, Gene will miss Mike McCormick's Southern Illinois stories, Elena Kezelis' hourly updates on lawyers and law enforcement, Eric Robinson's Friday Grosboll's discourse on deferred comp, and Deno's explanations of why the bill Livingston's musings over Meigs, undefeated having pummeled a lampshade and rabbit-punched his phones; and Tom afternoon crisis of the hour,

Whereas, Gene is leaving the public payroll to the lucrative field of public relations, it is important to note he's also leaving his state-owned Ford Taurus for a shiny green BMW (in case you haven't heard, Gene wants you to that was "dead" just passed the Senate; and know it's the 500 series);

dedicated leadership for the citizens of Illinois, and wish him and his family Therefore, I , Jim Edgar, Governor of the State of Illinois, hereby proclaim this date, February 28, 1998, as GENE REINEKE DAY in the State of Illinois and with all sincerity wish to thank him for countless hours of good luck in the future.

> Filed by the Secretary of State March 6, 1998. Issued by the Governor February 26, 1998.

ECONARD D. "BARNEY" BARNARD DAY

Barnard is one of the most caring and giving individuals in Canton and Fulton County; and L.D. Whereas,

education or his endless concern for youth, Barney is always there with a Whereas, whether it is his family, farming interests, his unending helping hand; and

t t have as a member, and one that Canton and Fulton County should be honored Whereas, Barney is the type of citizen that most communities would love have as a member;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 4, 1998, as LEONARD D. "BARNEY" BARNARD DAY in Illinois. Issued by the Governor February 26, 1998.

Filed by the Secretary of State March 6, 1998.

MARKETING INNOVATORS MONTH

Inc. is an Illinois corporation which provides innovative incentive and performance solutions International, Innovators numerous Illinois businesses; and Marketing Whereas,

Whereas, Marketing Innovators" is one of the largest woman-owned businesses in the state and in the region; and

inspires improved individual and corporate performance through a variety of awards and travel services; and Whereas, Marketing Innovators

Whereas, February 15, 1998, marks the 20th anniversary of the incorporation

March Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim of Marketing Innovators;

INNOVATORS MONTH in Illinois. 1998 as MARKETING

Issued by the Governor February 26, 1998.

Filed by the Secretary of State March 6, 1998.

OPERATION DESERT STORM REMEMBRANCE DAY

Whereas, many soldiers, sailors, airmen, and Marines from the State of Illinois participated in Operation Desert Storm; and

wholeheartedly supported Whereas, many of the citizens of Illinois troops involved in this conflict; and

we must remember the 14 Illinois citizens who made the ultimate sacrifice while serving their nation in the Persian Gulf; and Whereas,

Whereas, February 28, 1998, marks the seventh anniversary of the cease fire State of Illinois, proclaim of the announcement for Operation Desert Storm; Therefore, I, Jim Edgar, Governor

February 28, 1998, as OPERATION DESERT STORM REMEMBRANCE DAY in Illinois.

Filed by the Secretary of State March 6, 1998. Issued by the Governor February 26, 1998.

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PROFESSIONAL SECRETARIES WEEK/PROFESSIONAL SECRETARIES DAY

economic professional secretaries contribute to the strong climate throughout Illinois; and

Whereas, professional secretaries in business, education, and ensure work-force productivity; and

professionalism and leadership of these secretaries enhance commerce in our state; Whereas, the

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April 25, 1998, as PROFESSIONAL SECRETARIES WEEK and April 22, 1998, as PROFESSIONAL SECRETARIES DAY in Illinois in recognition of these hard-working individuals and the contributions they make to the business community. 19-25, 1998,

Filed by the Secretary of State March 6, 1998. Issued by the Governor February 26, 1998.

ARTS IN EDUCATION SPRING CELEBRATION MONTHS

Whereas, the Peoria County Regional Office of Education is committed to the establishment and continuation of school programs that provide students with the opportunity to achieve academic excellence; and

ţ development and promotion of fine arts and applied arts programs; is Whereas, the Peoria County Regional Office of Education

April the Peoria County Courthouse, provides a venue for students in grades Pre-K through 12 to Whereas, the 1998 Arts in Education Spring Celebration will be held Whereas, the Arts in Education Spring Celebration, held at showcase their works and talents; and

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim and May 1998 as ARTS IN EDUCATION SPRING CELEBRATION MONTHS in Illinois. 13 through May 29, 1998;

Filed by the Secretary of State March 6, 1998. Issued by the Governor March 2, 1998.

EMPLOY THE OLDER WORKER WEEK

honored older working Americans by proclaiming the second full week of March as National traditionally has United States President Employ the Older Worker Week; and Whereas, the

Whereas, the number of older adults in the workforce is steadily increasing we approach the 21st century and their value to American business and industry has grown accordingly; and

of hiring, promoting and supporting mature workers and how future productivity Whereas, Illinois business, industry and government realize the importance depends on their participation in the workforce; and

Whereas, the State of Illinois annually acknowledges the contributions and of older working Illinoisans by observing National Employ the luncheon and awards ceremony a statewide hosted by the Illinois Department on Aging; and Older Worker Week and sponsoring achievements

Whereas, this annual celebration is distinguished by a special theme and

signifies how active older workers support and contribute to a healthy economic future for Illinois and all of America; and Future," for the the 1998 theme, "Older Workers, 55 and Better...Shaping Up

Whereas, more than 500 outstanding older workers, their employers and other guests will enjoy statewide recognition and a day of tribute and festivities in Springfield on March 19, 1998;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 8-14, 1998, as EMPLOY THE OLDER WORKER WEEK in Illinois.

Issued by the Governor March 2, 1998.

Filed by the Secretary of State March 6, 1998.

GOLDEN APPLE DAY

Anniversary of the Golden Apple Scholars of Illinois and will be marked with a Whereas, March 20, 1998, has been set aside to recognize the 10th

celebration at the Grand Ballroom at Navy Pier in Chicago; and Whereas, in 1988, the Golden Apple Scholars program was proposed and was designed to address the urgent need for resilient and creative teachers in Illinois schools of high need; and

Whereas, from the first group of 15 scholars from Chicago who were selected in 1989, the program now selects 60 scholars from across the state yearly; and

Whereas, the objectives for the Golden Apple Scholars of Illinois program include support for the recruitment and nomination of aspirants to the Scholars program, and support for those scholars in college through the beginning of their teaching career; and

Whereas, the Golden Apple Foundation is dedicated to the belief that excellent teaching is the single most critical component of the educational Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March

20, 1998, as GOLDEN APPLE DAY in Illinois. Issued by the Governor March 2, 1998.

Filed by the Secretary of State March 6, 1998.

HOME EDUCATION WEEK 66 - 86

the State of Illinois recognizes the importance of family support Whereas, the State of Illinois is committed to excellence in education; and educational programs; and

and others and may be administered in Illinois under statutory requirements of Washington, Thomas Edison, Helen Keller, Agatha Christie, Franklin Roosevelt, Whereas, home education was proven successful in the lives the school code;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim May 3-9, 1998, as HOME EDUCATION WEEK in Illinois.

Issued by the Governor March 2, 1998.

Filed by the Secretary of State March 6, 1998.

MIDWEST FERTILITY AWARENESS WEEK

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to the pursuit of Whereas, every individual has the right

health is defined as a state of physical and mental well-being; happiness in his/her lifetime; and

Whereas, infertility is a disease which disrupts the normal function of

infertility affects about 10 percent of the reproductive age reproductive system and results in the inability to bear children, one of most basic of human desires; and

population - afflicting men and women in equal frequency - thereby impending upon the individual?s health and right to establish a family; and

a disease with broad social and medical is infertility implications; and

conditions which often lead to infertility should be encouraged and their health maintenance and disease prevention, and the early diagnosis of potential harm factors shared with the public, in addition to medical Whereas, diagnosis and treatment for infertility should be considered community; and

Whereas, we must foster greater understanding of infertility and related reproductive health problems among Americans, and provide necessary support for individuals affected by this disease in their efforts to start and grow

Reproductive Medicine (ASRM) are planning an infertility awareness and outreach Whereas, Midwest Fertility Center together with the American Society for program, Building Families Campaign; and

Whereas, Midwest Fertility Center, which opened in 1984, is having a on June 13 from 11 a.m. - 1:30 p.m. at McCullom Park in Downers Grove;

I, Jim Edgar, Governor of the State of Illinois, proclaim June 8-13, 1998, as MIDWEST FERTILITY AWARENESS WEEK in Illinois. Therefore,

Issued by the Governor March 2, 1998.

Filed by the Secretary of State March 6, 1998.

ROBERT B. OXTOBY DAY 98-101

Whereas, Robert B. Oxtoby was the longest-serving member of the Capital Board, having first been appointed in 1977 and retaining his seat on the Board for more than 20 years; and

Whereas, Robert B. Oxtoby served as Chairman of the Capital Development Board between 1990 and 1995; and

Whereas, Robert B. Oxtoby passed away on July 4, 1997, leaving a legacy of the highest standards of public service; and

Whereas, the Capital Development Board is officially dedicating its Board Room at the William G. Stratton Building in Springfield in Robert B. honor at its meeting March 10, 1998;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 10, 1998, as ROBERT B. OXTOBY DAY in memory of this loyal and dedicated public servant and in recognition of the inspiring example he set for all.

Filed by the Secretary of State March 6, 1998. Issued by the Governor March 2, 1998.

WOMEN IN ILLINOIS SALUTED DURING WOMEN'S HISTORY MONTH

have resulted in a greater opportunity for the women of today than they have the work and struggle of women throughout the last two centuries ever known in the history of our nation; and

we recognize and applaud the efforts by women such as Elizabeth Cady Stanton, Mary A. Livermore, and Mary Eliza McDowell, who worked tirelessly to create a path for success upon which today's women travel; and

Whereas, women have made continual strides in the 20th century toward economic and societal equity despite the barriers that do exist, and on June created by Executive Order 1 and is serving to examine the economic, societal and legal barriers that continue to exist and investigate and recommend 23, 1997, the Governor's Commission on the Status of Women in Illinois measures that remove barriers to equity for the women in Illinois; and

Whereas, women have learned from the knowledge and experience of the role models from the past and seek to provide opportunity and prosperity for young women of Illinois' future;

Therefore, I, Jim Edgar, Governor of the State of Illinois, salute the women of Illinois during the month of March 1998 Women's History Month

Issued by the Governor March 2, 1998.

Filed by the Secretary of State March 6, 1998.

LIONESS CARAMEL DAY

visually impaired, deaf, and hearing Whereas, the Lioness Clubs of Illinois tirelessly donate their time to ongoing efforts to help the blind, impaired; and

the Lioness Clubs of Illinois are sponsoring Lioness Caramel Day for Sight and Sound throughout our state on May 1, 1998; and

Whereas, Caramel Day is being held under the auspices of the Lions of Illinois Foundation, a nonprofit organization; and

Whereas, Illinois residents will benefit greatly from funds raised on Caramel Day;

1998, as LIONESS CARAMEL DAY in Illinois and urge citizens to support this Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim May 1, worthwhile endeavor.

Filed by the Secretary of State March 6, 1998. Issued by the Governor March 3, 1998.

BARBARA M. WHEELER DAY 98-104

improving education for the children of Illinois since her first election, in 1974, to the Board of Education of Community High School District 99 in Downers Barbara M. Wheeler has devoted untold hours and experience to Whereas, Grove; and

has served as president of her local board of education and her expertise as an attorney by serving on numerous local she committees; and Whereas, has shared

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Downers Downers Grove Chamber of Commerce, George Williams College, and the Whereas, in addition, she has devoted additional hours of service Grove YMCA and other organizations; and

Whereas, she has served as a consultant to numerous Illinois school districts in searching for superintendents, as a consultant to the Chicago Board of Education and in numerous other advisory roles; and

by serving as Whereas, she has demonstrated her leadership ability President of the Illinois Association of School Boards; and

the Illinois State Board of Education, the Illinois Association of School Whereas, she has been recognized for her leadership role with Administrators and the Illinois Association of School Boards; and

member of the board of directors of the National School Boards Association; and experience and ability have led to her election as Whereas, she has taken on national-level responsibilities by serving School Secretary-Treasurer, then President-elect of the National her Whereas,

she has been elected President of the National School Boards Association to serve as leader of the nation's 95,000 elected school Association; and Whereas,

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April 6, 1998, as BARBARA M. WHEELER DAY in Illinois, honoring a life-long resident this state, who has served her native state and her nation with great distinction.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 4, 1998.

GIRL SCOUT WEEK

for girls in the world and recognizes that today's girls are tomorrow's organization Whereas, Girl Scouts of the U.S.A. is the largest voluntary leaders; and

Whereas, the Girl Scout Movement emphasizes building self-confidence, leadership skills, and decision-making ability; and

Whereas, Girl Scouts of the U.S.A. celebrates individuality in girls that they may develop their full potential; and

17 t C Whereas, Girl Scouts of the U.S.A. is open to all girls ages 5 offers a program that is responsive to their needs and interests;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 7-14, 1998, as GIRL SCOUT WEEK and urge the citizens of Illinois to support the Girl Scouts in the Land of Lincoln Council in their endeavors.

Filed by the Secretary of State March 12, 1998, Issued by the Governor March 4, 1998.

IRANIAN HERITAGE DAY

State of Illinois, with more than one million persons living throughout the who reside Whereas, there are several thousand Iranian-Americans United States; and

Illinois are applying their citizenry with their contributions in research, teaching, medicine, law, Whereas, the proud Iranian-American community of

ousiness, arts and public service; and

Iranian-American organizations in Illinois striving to unite our communities, cities, states and the nation through cultural awareness and education for the Whereas, there are several community groups, media and cultural entities of preservation of our divers spectrum of cultures; and

Whereas, "Now Rouz" (the new day), the first day of Spring, is celebrated as New Year's Day among all Iranians regardless of their religious beliefs; and Whereas, the traditional "Now Rouz" celebration begins with spring

cleaning. This tradition of spring cleaning is to be extended to the cleansing A fresh season is to follow through visiting and greeting one's neighbors, relatives and especially of the body and soul from animosity and grievances. the elders in the family; and

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March Whereas, Iranians all over the world will be celebrating the arrival of Spring (the Iranian New Year 1377) on March 21, 1998;

21, 1998, as IRANIAN HERITAGE DAY in Illinois.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 4, 1998.

LA PETITE DELTA MONTH

Delta Sigma Theta Sorority, Inc., a public service organization, was founded at Harvard University in 1913; and Whereas, the sorority founders envisioned an organization of collegiate community service, and their ideals of service and commitment to scholarship have withstood the test of women pledged to philanthropic endeavors and

Alumnae Chapter of Delta Sigma Theta Sorority, Inc., has been committed to fostering high ideals in areas such as education, economic development, social Whereas, since its inception in January 1976, the Springfield-Decatur Area

Whereas, commencing in 1983, the 'La Petite Delta' program has provided educational and cultural enrichment activities for 8th grade young ladies in the Springfield and Decatur areas. The program offers a series of workshops, field trips and educational activities over a five-month period to help participants develop into positive role models for our communities; and action and mental health; and

Whereas, the La Petite Delta galas will be April 4, 1998, and April 28, 1998, marking the program's 16th celebration;

participants and the members of the Springfield-Decatur Area Alumnae Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April 1998 as LA PETITE DELTA MONTH in Illinois. I extend best wishes to the 10 Chapter of Delta Sigma Theta Sorority.

Filed by the Secretary of State March 12, 1998 Issued by the Governor March 4, 1998.

MARCH OF DIMES MONTH

Whereas, the March of Dimes Birth Defects Foundation is celebrating its 60th Anniversary as a voluntary health organization working to ensure healthy lives for America's children; and

ILLINOIS REGISTER

Whereas, the March of Dimes was founded in 1938 to raise funds through the efforts of thousands of volunteers to support the development of a vaccine that virtually eliminated the crippling human toll of polio; and

Whereas, for the past 40 years the March of Dimes has been a pioneer in saving babies from birth defects, low birth weight and infant death through research, education, community services and advocacy; and

Whereas, the nation's hope for assuring future generations of children a healthy start in life depends on the efforts and commitment of all Americans;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 1998 as MARCH OF DIMES MONTH in Illinois.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 4, 1998.

ABSOLUTELY INCREDIBLE KID DAY

Camp Fire Boys and Girls, the national organization, will sponsor Absolutely Incredible Kid Day on March 19, 1998; and Whereas,

to action, asking every adult in America to write a letter to a child or children on March 19, Whereas, Camp Fire Boys and Girls has issued a call

Whereas, Camp Fire Boys and Girls has established the goal that every child receive a letter on March 19, 1998; and

Whereas, the Metropolitan Chicago Council of Camp Fire, founded in 1912,

Whereas, the Illinois Prairie Council of Camp Fire, founded in 1917, serves serves more than 5,000 children annually in Cook, Lake, and McHenry County; and more than 3,000 children annually in DuPage, Will, Kane, and parts of Cook

Whereas, through contemporary programs and by speaking out on issues affecting youth and their families, Camp Fire Boys and Girls helps youth cope with their changing world; and

Whereas, in Camp Fire, the choices and opportunities are inclusive to boys and girls; and

Whereas, Camp Fire Boys and Girls is commended for the valuable programs offered to young people in the State of Illinois and throughout the nation, and for the many services these young people perform for their communities through Camp Fire; Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 19, 1998, as ABSOLUTELY INCREDIBLE KID DAY in Illinois.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 5, 1998.

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MOTHER OF THE YEAR DAY

Illinois State Mother of the Year, as well as all the mothers in our state, to provide an appropriate occasion for honoring observe Mother of the Year Day; and Whereas, in order

is not within our power to provide an honor commensurate with the love and devotion that is inherent in motherhood, but it is entirely feel for the unselfish guidance and unfailing loyalty that only a mother can appropriate that we demonstrate, as best we can, the sincere appreciation we Whereas, it

provide; and

Whereas, it is especially important at this time, when the sanctity of the home and stability of our society are so vital to the preservation of our free way of life, that we honor the Illinois Mother of the Year as the symbol of those women, who with great patience and understanding, shape our destiny; and Whereas, the 1998 Illinois Mother of the Year is Loretta "Dolly" Albers

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 22, 1998, as MOTHER OF THE YEAR DAY in Illinois.

Issued by the Governor March 5, 1998.

Filed by the Secretary of State March 12, 1998.

POISON PREVENTION WEEK

Center (IPC) has served the nine-county metropolitan Chicago area since 1953; and Whereas, the Illinois Poison

Whereas, in 1997, the IPC was expanded to serve all residents of the State of Illinois following the closure of the Poison Information Center in Rockford;

Whereas, the IPC has been designated by the Illinois Department of Public Health as a Regional Poison Control Center; and

Whereas, approximately 72 percent of all human exposures are handled by IPC staff without a referral to a hospital emergency room, saving more than \$3.5 million annually in unnecessary hospital emergency room and office visits.

In sum, for every dollar spent on the IPC, more than \$5 in unnecessary medical costs are saved;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March

15-21, 1998, as POISON PREVENTION WEEK in Illinois.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 5, 1998.

STOP THE VIOLENCE MONTH

Whereas, every year thousands of citizens are victims of violent crime; and Whereas, citizens should continue to work together to halt the spread of violence across our country; and

Whereas, those who strive to make their neighborhoods safer should commended for their efforts; and

þe

introduce ethnic diversity, the arts, law, crisis intervention counseling and Whereas, the mission of the National Stop the Violence Alliance, Inc. is organized to provide social, health, job training, educational and employment services and opportunity for our youth, elderly and the employable. To spiritual growth. To enhance the lives of all people and promote peace, unity provide positive role models for our youth and end youth violence, drugs, dropouts, teen pregnancy, gang activities. To show alternative solutions to and harmony in our schools, churches, synagogues, neighborhoods and cities. problems and produce programs. Last, to place a smile on all faces; and

Whereas, efforts to educate on the fundamental causes of violence and solutions to curb violence will be emphasized during the month of April;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April

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1998 as STOP THE VIOLENCE MONTH in Illinois. Issued by the Governor March 5, 1998.

Filed by the Secretary of State March 12, 1998.

MULTIPLE SCLEROSIS ASSOCIATION MONTH

nervous system, is the number one disabling disease of men and women between oĘ disease Whereas, multiple sclerosis (MS), a neurological the ages of 20 and 40; and

Whereas, this disease can cause difficulties with vision, speech, balance and coordination; impaired mobility; bladder and bowel dysfunction; and a range of partial to complete paralysis; and

Whereas, MS is an unpredictable disease with no single infallible sign by the diagnose the disease, and affects almost 500,000 of our fellow which to diagnose the disease, and affects almost 500,000 of our citizens and has no known cure; and

Whereas, the Multiple Sclerosis Association, founded in 1970 by John and Ruth Hodson, is a nonprofit organization dedicated to providing therapeutic equipment and comprehensive service to thousands of Multiple Sclerosis patients and their families;

Jim Edgar, Governor of the State of Illinois, proclaim May 1998 as MULTIPLE SCLEROSIS ASSOCIATION MONTH in Illinois. Therefore, I,

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 6, 1998.

AMERICAN RED CROSS MONTH 98-114

Whereas, founded by Clara Barton on May 21, 1881, the American Red Cross is a humanitarian organization led by volunteers and is the largest social service agency in the world; and

main voluntary agency responsible for disaster relief and the primary emergency the communications link between military personnel and their families; and Whereas, Congress has designated the American Red Cross as

Whereas, the American Red Cross is the primary deliverer of health and safety services to the American people as approved by the American Academy of Sciences; and

55 American Red Cross Chapters and two blood regions in Illinois provide services for the more than 11.7 million residents of the state; and Whereas,

supply, serving hospitals throughout Illinois by collecting, Whereas, the American National Red Cross provides more than half of processing and distributing more than 200,000 units of blood; nation's blood

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 1998 as AMERICAN RED CROSS MONTH in Illinois.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 6, 1998.

AACRAO WEEK

Whereas, the American Association of Collegiate Registrars and Admissions Officers (AACRAO) is a member-driven association, shaped and directed by the

States needs of professionals in higher education administration in the United

Whereas, over the past 85 years, AACRAO's membership has grown from 15 to nearly 9,000, particularly with the recent addition of high school and student and more than 20 foreign countries; and

Learning, and the Role and Mission of Enrollment Services - that promise to Whereas, AACRAO members lead the association by nominating representatives to the Board of Directors and more than 30 committees and task forces. This includes three new task forces - Credentialing and Certification, Virtual serve members with new direction and focus; and

benefits. They serve as the "point persons" between their institutions and the association and receive the many publications slated for one-per- institute Whereas, contact members have a special role in AACRAO and receive special distribution; and

education professionals, AACRAO addresses a wide variety of issues in its professional development workshops and seminars. The AACRAO annual meeting, held each year in mid-April, covers professional concerns ranging from Whereas, reflecting the multifaceted job requirements of today's higher enrollment management and information technology to cultural diversity and records management; and

Whereas, several free-standing conferences travel to different locations each year to address issues like strategic enrollment management, federal and state legislation, financial aid, working with volunteers, adapting to change, and many others; and

higher education, and AACRAO has taken on increasingly ambitious projects to Whereas, technology has become increasingly important in the field keep the membership well informed; and

Whereas, AACRAO also plays a key role in the articulation between secondary and post-secondary institutions with its SPEEDE project;

Whereas, AACRAO will hold its annual meeting in Chicago, April 12-16;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April

Issued by the Governor March 9, 1998. 12-16, 1998, as AACRAO WEEK in Illinois.

Filed by the Secretary of State March 12, 1998.

ARTS EDUCATION WEEK (1) 911-86

Whereas, Arts Education and the Artsmart campaign advocate and celebrate the accessibility and viability of arts for children; and

surrounds them, the art that provokes thought, and the art that provides Whereas, students' and children's lives are enriched by the art that inspiration in their hearts and minds; and

Whereas, the awareness of the need for Arts Education and Artsmart in Illinois deserves recognition and support; and Whereas, the arts may continue to flourish in abundant variety through innovative ideas such as Artsmart; and

Education, the Target store of Springfield and the Illinois Arts Council have created a partnership that plays a vital role in bringing Arts Education and Whereas, the Springfield Area Arts Council, the Illinois Alliance for Artsmart to the citizens of Illinois;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March

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16-21, 1998, as ARTS EDUCATION WEEK in Illinois, coinciding with Artsmart Day in Springfield.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 9, 1998.

DOROTHY RICHARDSON DAY

Whereas, family members and friends of Mrs. Dorothy Richardson, a teacher for 35 years with the Chicago Board of Education, will celebrate her retirement with a dinner on Saturday, March 21, 1998, at 4:00 p.m. at the Condessa Del Mar Supper Club Dining Room; and

Whereas, Mrs. Richardson spent her career with the board as a classroom teacher, counselor, school librarian and an assistant administrator; and

Whereas, she began her career in 1962 at Cregier Vocational High School and ended her career at John Farren Fine Arts School on November 14, 1997; and

Whereas, during her tenure, Mrs. Richardson's courage, dedication and unselfish commitment to making sure that her students came first and doing everything in her power to provide a quality education has been a true testament of her many accomplishments; and

sorority of the Board of Education, and won the honor of Librarian of the Year Whereas, in 1993, Mrs. Richardson was nominated by the Phi Delta Award; and

students are aware of her genuine concern for their future and has inspired Whereas, Mrs. Richardson has worked untiringly to making sure many to strive for excellence in every endeavor;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 21, 1998, as DOROTHY RICHARDSON DAY in Illinois.

Issued by the Governor March 9, 1998.

Filed by the Secretary of State March 12, 1998.

MUSIC EDUCATION DAY

Whereas, music in the schools of Illinois is designed to bring about recognition of the vital place of music in the educational process; and

Whereas, music is a powerful and aesthetic force that gives our young people a sense of civilization because it dignifies the realm of feeling by merging intellect and emotion in the search for a humane way of life; and

music is a basic influence in the lives of millions of people who participate in performing, listening and observing experiences developed through music in schools; and Whereas,

Whereas, Music Education Day at our Capitol is a special opportunity for citizens to understand and support the ongoing process of music education; and

schools as an essential part of the learning process and to encourage and Whereas, it is fitting for the State of Illinois to recognize music in our support this basic art form in the curriculum of the schools of Illinois;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 19, 1998, as MUSIC EDUCATION DAY in Illinois.

Filed by the Secretary of State March 12, 1998. Issued by the Governor March 9, 1998.

TREE CITY USA MONTH

Whereas, the forest resources in and around Illinois communities are important to the citizens of Illinois; and

Whereas, these forest resources can help to enhance the quality of life and provide economic well being by providing benefits of energy conservation, utilization, wood environmental quality, social well being, opportunities; and

Whereas, the management of our urban and community forest resources in community maintenance programs and sustainable cities and communities; and contribute to a health environment, cost savings

Whereas, a well managed urban and community forest is essential for enhanced public safety and well-being; and

the establishment and enhancement of existing community forestry efforts; Whereas, 20 units of government received Urban Forestry Assistance Grants for Whereas, more than 140 communities have qualified as Tree City USA communities and 35 of these communities have achieved the "GROWTH AWARD"; and

Whereas, Tree City USA communities have made significant contributions toward enhancing the quality of life by improving the forest resources of

1998 as TREE CITY USA MONTH in Illinois, and ask all citizens to work together Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April to preserve the natural beauty of our state this month and throughout the year.

Issued by the Governor March 9, 1998.

Filed by the Secretary of State March 12, 1998.

ARTS EDUCATION WEEK (2)

Whereas, the Illinois State Board of Education and Illinois Alliance for Arts Education, in cooperation with the Illinois Arts Council, are sponsoring the 16th annual Arts Education Week, March 15-21; and

of music, theater, dance/movement, literary, media, and visual arts in the Whereas, Arts Education Week is dedicated to the celebration and importance total education of all students; and

Whereas, the purpose of this celebration is to promote awareness of arts in education, encourage cooperative efforts among all arts organizations and schools, provide students with opportunities to highlight their accomplishments in a variety of arts experiences, and provide a forum to demonstrate support of Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 15-21, 1998, as ARTS EDUCATION WEEK in Illinois and urge all citizens to in this celebration and support the creative future of our youth.

Issued by the Governor March 10, 1998.

Filed by the Secretary of State March 12, 1998.

MANUFACTURERS WEEK

Whereas, more than 70 percent of the nation's research and development is

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the majority of technological advancements that improve our standard of living and performed by industry and these breakthroughs are directly responsible for increase workplace productivity; and

Whereas, overall productivity in manufacturing has increased 285 percent

since 1960; and

higher productivity, inflation rates manufacturing have been far lower than the economy as a whole; and to que partly

current membership of more than 8,000 executives representing 4,800 plants in Whereas, the Illinois Manufacturers' Association (IMA) is one of the oldest and largest manufacturing trade association in the United States, with a

state's manufacturing work Whereas, IMA members employ 75 percent of the force or more than 800,000 Illinois citizens; and Whereas, economists agree that for every 100 new manufacturing jobs, at least 205 additional jobs are created in other sectors of the economy;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 16-20, 1998, as MANUFACTURERS WEEK in Illinois.

Issued by the Governor March 10, 1998.

Filed by the Secretary of State March 12, 1998.

98-122

DAYS OF REMEMBERANCE OF THE VICTIMS OF THE HOLOCAUST

Whereas, the Holocaust was the state sponsored, systematic persecution and annihilation of European Jewry by Nazi Germany and its collaborators between 1933 and 1945; and

Whereas, Jews were the primary victims--six million were murdered--while many others were also targeted for destruction or decimation for racial, ethnic or national reasons; and

Whereas, 1998 marks the 52nd anniversary of the international Military Tribunal's trial at Nuremberg of 22 major Nazi leaders, and the continuation of subsequent military tribunals at Nuremberg as well as in other Allied-occupied sectors of Germany, to try additional Nazi criminals; and

against peace and war crimes were punishable, thus making the individuals who Whereas, the charter for the Nuremberg Trials established, for the first time in international law, that crimes against humanity as well as crimes were responsible for promulgating government policies that resulted aggressive war and genocide accountable for their actions; and

in addition to the need for crimes against humanity, each citizen is responsible for eternal vigilance against all international law to provide judicial accountability for Americans recognize that, Whereas, tyranny; and

Whereas, April 19, 1998, has been designated, pursuant to an Act of Congress, as a Day of Remembrance of the Victims of the Holocaust, know internationally as Yom Hashoah;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April 19-25, 1998, as DAYS OF REMEMBRANCE OF THE VICTIMS OF THE HOLOCAUST and urge all citizens to collectively and individually strive to overcome bigotry, hatred and indifference through learning, tolerance and remembrance.

Issued by the Governor March 11, 1998.

Filed by the Secretary of State March 12, 1998.

IIA SPRINGFIELD CHAPTER DAY

Whereas, the Springfield Chapter of The Institute of Internal Auditors is a professional association affiliated with The Institute of Internal Auditors (IIA), an international organization devoted to the interests of the profession of internal auditing with 232 chapters worldwide and a total membership exceeding 60,000; and

Whereas, The Institute of Internal Auditors has set and issued the Standards for the Professional Practice of Internal Auditing; and

internal auditors offer services invaluable to the executive operations of institutions and businesses in both the public and private

members representing 33 Illinois offices and agencies, four universities, 14 Whereas, the Springfield Chapter chartered in 1978, serves more than 200 companies, one federal agency and one county office in the City of Springfield; Whereas, the Springfield Chapter of The Institute of Internal Auditors celebrates its 20th Anniversary this year, and its members reflect the high standards of the profession on internal auditing;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim March 19, 1998, as IIA SPRINGFIELD CHAPTER DAY in Illinois.

Issued by the Governor March 11, 1998.

Filed by the Secretary of State March 12, 1998.

NATIONAL 600 BOWLING CLUB WEEK 98-124

12 states, one Whereas, the National 600 Bowling Club Inc. was formed in 1948; and Whereas, in 1948 there were 66 charter members from

the National 600 Bowling Club has members in California, York, North Dakota, Ohio, Illinois, Indiana, Missouri, New Jersey, New Pennsylvania, Texas, Washington and Wisconsin; and which was from the State of Illinois; and Whereas,

Whereas, the National 600 Bowling Club Inc. will be celebrating years of pride and excellence this year;

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim April 26-May 2, 1998, as NATIONAL 600 BOWLING CLUB WEEK in Illinois.

Filed by the Secretary of Stat March 12, 1998. Issued by the Governor March 11, 1998.

NATIVE AMERICAN HISTORY MONTH

Whereas, 10,000 years ago, the first inhabitants of Illinois hunted, fished, and gathered food to support their families in areas such as and Dickson Mounds; and

Whereas, these early residents considered Illinois' rich soils, abundant water, productive hardwoods, and tall prairie grasses a good place home; and Whereas, at first, the early European settlers were not considerate of cultures other than their own, but through the kindness and hospitality of the

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Native Americans, the settlers began to understand the value of cultural diversity; and

Whereas, through this sharing, the Europeans gained knowledge in crops, pottery, hunting, medicine and fishing; and

Whereas, Native Americans have an envious understanding of the environment culture of and dedication to natural resources and have helped shape the rich

Therefore, I, Jim Edgar, Governor of the State of Illinois, proclaim October 1998 as NATIVE AMERICAN HISTORY MONTH and encourage all Illinoisans to recognize the contributions of Native Americans.

Issued by the Governor March 11, 1998.

Filed by the Secretary of State March 12, 1998.

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